



UNIVERSITY OF ALBERTA

folio

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Researchers mark CFI anniversary

Fund revived "moribund" universities

By Richard Cairney

As Ray Rajotte was preparing for this week's opening of the University of Alberta's new Alberta Diabetes Institute, he paused to consider the impact of the federal Canada Foundation for Innovation funding program.

Gesturing to the institute's home – the brand-new Health Research Innovation Facility – Rajotte summed up the funding agency's impact: "We wouldn't have that building," he said.

"We got \$28.5 million. Forty per cent of that was from the CFI, 50 per cent was from the province and 10 per cent was raised through philanthropy. But without the CFI funding, it wouldn't have happened – no question."

Rajotte, one of the pioneers behind the Edmonton Protocol for Type 1 diabetes treatment, was one of dozens of high-profile researchers who gathered on campus Nov. 9 to celebrate the 10th anniversary of the fund, which has awarded \$183 million to 272 U of A projects over the past decade. Because a condition of the funding is matching grants, the U of A has leveraged an additional \$123 million in funding as a result of CFI's seed funding – most of it from the provincial government and Alberta's research granting agencies.

Dr. Richard Fedorak, a U of A professor and director of the CFI-funded Centre of Excellence for Gastro-intestinal Inflammation and Immunity Research, said the CFI funds what he calls science's "silent partner" – infrastructure.

The fund helps finance "all those 'mundane' things behind us that leads to the health care and science that

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Members of the ButaNerds team work on their project before heading to the International Genetically Engineered Machine competition at MIT. At right: team members strike a victorious pose after winning first place.



Students take first place at MIT energy competition

Team toys with genetics to produce fuel

By Illeiren Poon and Richard Cairney

The University of Alberta ButaNerds have taken first prize in the energy category at an international genetic engineering competition at MIT in Cambridge, Mass.

The U of A team is using *E. coli* bacteria to produce butanol, a biofuel that could one day replace gasoline. Butanol also cuts down on greenhouse gas emissions and takes food crops out of the equation in the development of biofuels.

Teams from 59 universities from around the world took part in the International Genetically Engineered Machine competition, which invites researchers from all over the world to address the question: Can simple biological systems be built from standard, interchangeable parts and operated in living cells?

The U of A squad, composed of eight undergraduate and two graduate students from seven different departments, beat out teams from institutes like the University

of California Berkeley and Virginia Tech.

The students spent the summer building a new kind of bacteria – one that might hold some answers to the planet's diminishing supply of fossil fuels. The team took genetic parts from a butanol-producing organism called *Colestridium acetylbutylicum*, and inserted it into *E. coli* bacteria to produce butanol more efficiently.

"*Colestridium* produced butanol, but not very efficiently," said team member Justin Pahara, who is a graduate student in cell biology. He added that the team hopes to insert the genetically engineered butanol-producing pathway into a photosensitive bacterium that doesn't require food crops to produce fuel.

The team has successfully tested the fuel in a quad and other engines.

The team is truly interdisciplinary, coming from biosciences, mechanical and electrical engineering, immunology, pharmacology, biochemistry and physics.

Pahara said being a part of the team

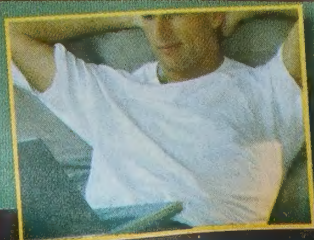
was a unique learning experience.

"It's really nice to have an opportunity like this," he said. "It is so different, to have a group of 10 students from different departments. It was just crazy. It was a really interdisciplinary project I would have never imagined being a part of. There are lots of undergraduates on this team and I think this will definitely influence their career paths."

He said the team is already gearing up for next year.

"Next year will be better. We had to do tons of fundraising this year and now we have our supporters and we can just get right to the project next year. We're going to keep doing the biofuel project and maybe one or two in the biomedical round."

Andrew Hessel, with Alberta Ingenuity, helped guide the U of A team as well as teams from the universities of Lethbridge and Calgary. The ButaNerds, he says, performed exceptionally. ■



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Bookstore brews books on demand

Machine has access to nearly 300,000 digital books

By Richard Cairney

The University of Alberta Bookstore is serving up a whole lot of Espresso – but not in a cup. Its brand-new Espresso Book Machine – one of four in the world and the only one in Canada, is now churning out custom-ordered books.

Manufactured by On Demand Books and named one of the best inventions of the year by *Time* magazine, Espresso prints as many as four books every two minutes – offering digital reprints of out-of-print or self-published books at a fraction of the price charged by publishers.

“One advantage of having this is that we’re able to offer savings to students,” said Bookstore manager Todd Anderson. Publishers will, for example, produce custom editions of textbooks that contain, say, 10 of 15 chapters, if that is all a certain course requires. The 10-chapter version costs less than the original but requires an eight-week wait, still needs to be printed, bound and shipped – and then there are the inherent risks like the return of unsold books.

Using Espresso, Anderson says, publishers can simply send pdf files to the Bookstore, which will print the books, pay royalties to the publisher and deliver the books to students. “And our lead time is two minutes – not eight weeks.”

Anderson points to a \$52 electrical engineering textbook as an example. “This

“All of Shakespeare’s works are in the public domain. So if you want a book of only the tragedies, we can do that. And if a professor wants to build some comments into it, we can do that too, so in a way, we’ve become a publisher.”

– Todd Anderson

book costs 26 cents per page but we can produce it, pay royalties and have it on the shelves for about 12 cents a page. “

Espresso also puts rare, out-of-print and custom-designed books into the hands of consumers in minutes.

Whne the machine arrived at the Bookstore, Anderson was printing off copies of *Guide and Companion to Edmonton Alberta: A hand book for everybody: for residents, tourists, intending settlers and others*. Originally published in 1909, a year after the U of A was established, the book holds valuable historic information.

“The only way you can get your hands on this is to go to the Special Collections library at Rutherford and maybe get them to give you a pair of white gloves so you can look at it – or you can get your own copy of it here,” he said, adding that Espresso allows the Bookstore to do custom print jobs as well.

“All of Shakespeare’s works are in the public domain. So if you want a book of only the tragedies, we can do that. And if a professor wants to build some comments into it, we can do that too, so in a way, we’ve become a publisher.”

The Bookstore, Anderson added, has access to 288,000 digital books Espresso can print, and is working to expand that collection.

The U of A is the only bookstore in the world to operate one of four Espresso Machines on the market: One is at the World Bank in Washington, DC; another is at Egypt’s Library of Alexandria, and another at the New York Public Library. ■



The new Espresso machine can print up to four books every two minutes.

New ethics policy ensures safe disclosure

By Richard Cairney

A new policy on ethics has been approved by the U of A’s board of governors, providing an umbrella policy statement that supports existing policies on everything from finances to research ethics.

The new Ethical Conduct and Safe Disclosure Policy describes expectations of ethical conduct, confirms the rights of individuals in reporting conduct they feel may not meet the university’s standards, confirms the university’s obligation to protect individuals who make a good-faith disclosure from reprisal and confirms the

university’s obligation to protect the rights of a person against whom allegations have been made.

“There was a gap in our overall policy framework in that there was nothing dealing with safe disclosure,” said Larry Beauchamp, the university’s vice provost and associate vice-president of human resources.

It is difficult to imagine situations in which there is not a written guideline or policy governing ethical conduct. The new policy sits at the centre of a suite of existing policies governing everything from

employment, health and safety, discrimination and harassment, fraud and financial irregularities and more.

“You can look at all of those policies and they will help you to handle specific situations,” said Beauchamp. “With this new policy, we now have a more complete coverage and protection for those who make good faith disclosures.”

“We wanted to encourage people to feel safe from recrimination if they stepped forward with a good faith disclosure. This fills that gap.” ■

CFI anniversary

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Canadians benefit from,” said Fedorak, who added the CFI “is a potent force that fundamentally changed the face of research in our province.”

When the fund was first established a decade ago, said U of A President Indira Samarasekera, “moribund” universities struggled to comprehend the scope of the new initiative.

“Many of us had difficulty imagining

the possibilities,” she said. “We were mired in difficult cuts, trying to make do with worn-out infrastructure.”

Keith Brimacombe, the CFI’s inaugural president, helped drag universities out of that mindset.

“He kept reminding us: this is not the Canada Foundation for Renovation – it is the Canada Foundation for Innovation. ‘Dream big’ he urged us.”

Since 1997, the fund has invested \$3.7 billion to 5,100 projects at 129 research institutions in 64 municipalities across Canada.

Samarasekera said the fund has been instrumental in recruiting and retaining faculty members at the U of A and across Canada.

“It revolutionized our ability to recruit,” she said. “We went from being in a position of brain drain in this country to, I believe, brain gain.” ■

folio

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The art of war

Allen Ball documents life in the military

By Michael Brown

Documenting Canada's proud military history through the visual arts has always been a high honour bestowed upon some of Canada's best-known artists. Now the distinction belongs to a University of Alberta fine arts professor.

Allen Ball, a visual arts professor in the Department of Art and Design, is one of only a handful of artists in Canada chosen to be part of the Canadian Forces Artists Program. With a history reaching back to the First World War, the "War Artists" capture the daily operations, the people and the spirit of the Canadian Forces, ultimately giving the public a lasting record of Canada's military men and women and their work.

Applicants to the program are selected by a review panel made up of members from the National Gallery of Canada, the Canadian War Museum and Canada's military. Notable artists who have volunteered for the cause include A.Y. Jackson, Charles Comfort, Lawren Harris, David Milne, Goodridge Roberts, Jack Shadbolt, Molly Lamb Bobak and Alex Colville.

Although war artistry fell by the wayside in the final years leading up to the end of the 20th century, renewed calls to document Canada's military, more specifically, the day-to-day duties of military personnel, have brought the program back to life. With the creation of the artists program in 2001, Ball is set to join a new wave of war artists that has included Allan Harding Mackay, David Collier and Ho Tam.

"They wanted artists to paint – not in the old way of generals on horses and dead soldiers and the like, but what it's actually like to do this stuff and to show how people live in those types of environments," said Ball.

Ball, whose father fought for England in the First World War, said documenting the lives of Canadians in the service was his way of honouring both his past and present.



U of A fine arts professor Allen Ball took photos of Canadian soldiers on patrol during his time in the Middle East. Ball was selected to participate in the Canadian Forces Artist Program.

"When there was a call for submissions in 2005, it completely piqued my interest," said Ball, who has been a Canadian citizen for 10 years. "I've never had anything to do with the military because of my lifestyle and career path and whatnot, so I thought this was the perfect opportunity to do a couple of things: one, find out what it was like to be in the military for my dad, obviously different circumstances but under the same type of control and, two, to do something in the service of Canada."

"This is the only way as an artist to do

something for their country that isn't self-serving because it is a volunteer position."

The project began in June. Ball was stationed with the Canadian contingent at a multinational forces and observers base on the border of Egypt and Israel in El Gorah in Northern Sinai. The base was established in 1986 as a result of successful peace talks between Egypt and Israel. The multinational force patrols the border by air to see if troop numbers and armaments are at levels that both sides agreed to in the Camp David Accord.

"The whole thing is about presence. There is no interaction with the citizens; it's like you're in a giant prison of your own design," Ball said of his first trip to the Middle East. "It's not one of those spots that is high tension, but there is definitely an underlying tension. Talking to an Australian, he said, the second you take your eye off the ball that's when something's going to happen."

Over a 10-day period, Ball shot more than 1,500 photographs of eternal vigilance and duty and, in the process, got to know each of the 28 Canadians stationed there.

"What I did was follow every one of the Canadian contingent and took photographs of them in their workplace," said Ball. "It wasn't about portraiture; it was about where they actually have to do their work from the colonel right down to his driver."

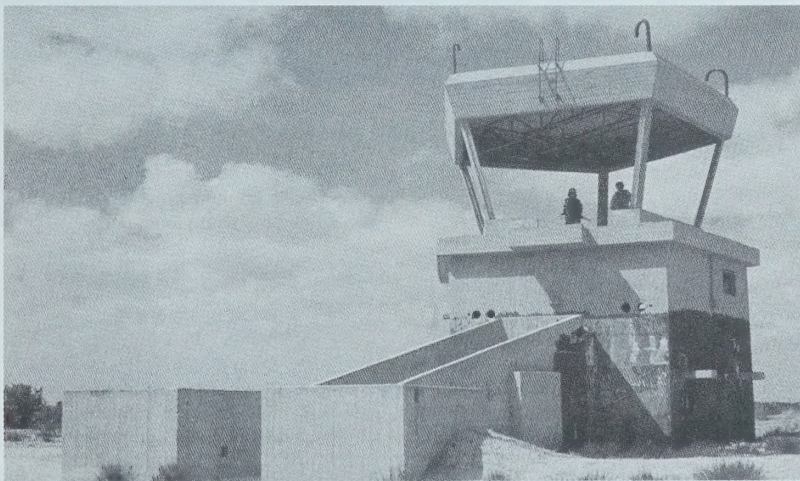
Ball came away with a new respect for the soldiers who serve Canada abroad.

"The Canadian guys are really well-regarded, and they're an incredible bunch," he said. "They knew why they were there, they knew what they were doing, they knew the implications of what they were doing, they knew the politics of the region far better than I ever did and they were doing their job because they believed in it. That was the thing that was astounding."

Back in the friendly confines of his office in the U of A Fine Arts Building, Ball is parsing down the photos into a bit of an exhibit. He will later decide on which photographs he will turn into about 20 paintings.

"I'll interpret the photograph, maybe change the mood, but I'm going to stay pretty faithful to the photograph," said Ball, who describes his art as representational but conceptual. "The Forces don't want the 'make us look good' thing; they are much more interested in a real portrayal of what they are doing. They already know they are never going to be able to control what we do and that's the point – they want us to illustrate that point for them."

Once the paintings are completed sometime over the next two years, Ball's project will be displayed as part of a tour that will make stops all across Canada including the National Gallery of Canada and the Canadian War Museum. ■



Teens don't connect contemporary history with Remembrance Day

By Ileiren Poon

For Canadian teens, Remembrance Day is more about the events of 65, even 90 years ago, than it is about current military service.

A 2005 study by University of Alberta researchers George Richardson and Laurence Abbott indicated that fewer than 10 per cent of teens think about military personnel serving in Afghanistan, or even those who served in Bosnia, when the red poppies are being passed out.

"In 2005, Afghanistan wasn't really on anyone's radar screen, so that's not too surprising," said Richardson, a professor and associate dean of the Faculty of Education. "But there was also very little reference to Bosnia, or to our country's lengthy history of peacekeeping. The focus was very much on World War I and World War II."

Richardson says this begs the question of how to bring Remembrance Day forward into events and sacrifices made more recently.

"For me, the real key is, if it's going to be remembered as a sacrifice, how to make that a remembrance that moves forward with what's happening more recently," he said. "If Remembrance Day is solely tied to events in the past, kids will certainly see that as significant, but it leaves out the Canadian Forces of today."

That significance may fade as veterans of those long-ago conflicts disappear.

"It's difficult now, for a World War II vet, or even a Korean War vet, to get to schools, and it was the presence of those kinds of people that was really a humanizing factor for students," Richardson said. "What's happening now in schools,

and I think this is a really important movement, is that soldiers who have done tours of duty in Afghanistan, and veterans of the Bosnian conflict, are visiting the schools. And you can see that the students are impacted by these people. The kids are dead silent when these folks are speaking."

What encouraged Richardson was that the majority of teens felt Remembrance Day was an important celebration. Most said they felt it plays a significant role in helping develop a common sense of national identity.

"The notion that a nation's military helps to preserve and protect our system of government, our values, and define us and our role in the world, is pretty clear," he said.

That's true today, just as it was when

he was a teen, says Richardson.

"My dad was a World War II vet. He was wounded in the war. I grew up with his stories – some good and some bad – but it was only as I got older that I started to realize that he was a very young man when he went to war and he made a significant sacrifice for this country," he said.

"My dad's generation and that experience helped to form me and other people of my generation. What's happening now will form the Canada the next generation knows."

Richardson and Abbott plan to conduct a larger follow-up study in November of 2008. They will ask the same questions, with a broad cross-section of students and will check back on the earlier results to see what, if anything, has changed in how students view Remembrance Day. ■

Bike allows paraplegics to cycle

Fitness and disease prevention increase

By Michael Brown

No matter how physically limited a person might be, physical fitness continues to be the common denominator for longer, more fulfilling lives.

Thanks to a generous gift from two local donors, the University of Alberta's Steadward Centre for Personal and Physical Achievement now boasts an impressive new piece of equipment that allows people with quadriplegia and paraplegia better access to such a life.

The RT 300 Motorized Functional Electrical Stimulation (FES) Cycle Ergometer allows people who have lost the use of their legs to better access a technology designed to keep them fit.

FES is a technique which applies electrical currents to paralyzed muscle through electrodes placed on the surface of the skin. This current delivers the necessary stimulation to illicit a muscle contraction with the purpose of providing useful movement so a person can exercise.

"We stimulate their muscles to pedal the bicycle against a resistance," said Bethany Steen, an FES consultant with the centre. "Just as anyone would pedal on an exercise bike, their muscles are pedalling but the action is controlled by electrical stimulation."

"It stimulates the quadriceps on one side just at the same time as the quadriceps on the other so then it is a push-pull pedaling motion. Just as your brain controls your own muscles, the machine controls the muscles in this case."

For people who have lost the use of their legs, the muscles in the legs begin to deteriorate.

"Over time we can slow muscle atrophy and even build up muscle," said Steen, adding that there are other benefits as well. "The RT 300 allows people to also get some much-needed cardiovascular exercise. Because they are sitting in their chairs all the time, they are at higher risk for cardiovascular disease, osteoporosis and Type 2 diabetes."

Steen says the bike improves circulation, which helps with pressure sores and seems to alleviate the pain that comes with muscle spasms.

"And just getting some general exercise, their energy levels go up, and just like any of us who get out and exercise regularly, they start to feel better about themselves."

The centre already utilizes two similar bikes, but the RT 300 has the advantage of being transfer free, which means users stay in their own wheelchair during the workout.

"The difference with this bike is that the staff doesn't have to transfer you, so it is a lot easier on them," said Darin Wood, a 19-year-



Bethany Steen makes sure everything's running smoothly as Darin Wood works out at the Steadward Centre. Wood, 19, uses the new RT 300 three times a week. An avid athlete before a car accident in 2006, Wood has found a way to stay physically active thanks to the cutting-edge equipment at the centre.

old quadriplegic who has been using the RT 300 three times a week. An avid athlete before a car accident in May of 2006, Wood found a way to stay physically active despite his injury thanks to the cutting-edge equipment at The Steadward Centre.

"I was playing hockey five to six nights a week, not only that but all kinds of sports. I was extremely active, but after being on the bike a short amount of time

it was almost like my legs woke back up again. I got my hockey legs back."

Another improvement on the new bike, which carries a price tag of more than \$20,000, is that it is controlled by wireless Internet. Programs designed online can be downloaded onto the RT 300. Every member has a specific code that is punched into the control pad and their individual program comes up.

"The bike, being so new, means it is a lot smoother and there are a lot more program advances," said Wood, one of seven Steadward Centre members who use the RT 300. "We can work at a greater level of resistance and use different strengthening exercises. The greater level of resistance gives me harder workouts, so in that sense you get more of a cardio workout and a muscle workout as well." ■

Steadward inducted into hall of fame

'The Father of International Paralympic Sport'

By Geoff McMaster

If you're looking for stories to inspire lost youth, you could do worse than add this one to your list.

Bob Steadward – the father of international paralympic sport and a University of Alberta professor emeritus of physical education and recreation – has been inducted into Canada's Sports Hall of Fame. He is an international paragon of grit, passion and determination, but 'twas not ever thus.

"Bob had a little self-destructive behaviour when he was in his initial years in university – he lacked direction and focus," said Gary McPherson, his close, longtime friend who helped Steadward organize the first Canadian wheelchair games. "He was a farm boy who came to the city, and university was fun rather than work. He was in the Faculty of Dentistry at the time (mid-1960s), and I think he was booted out.

He was certainly not the angel then that he is today."

McPherson, the executive director of the Canadian Centre for Social Entrepreneurship, says it was Maury Van Vliet, the founder of the Faculty of Physical Education and Recreation, who gave Steadward another chance.

"He saw a lot of potential in Bob," said McPherson. And so Steadward was "put on a short leash," and part of the deal was helping to organize the 1968 national wheelchair games, held at the U of A.

That new lease on his academic career was crucial for Steadward. His biggest source of inspiration was the disabled athletes he worked with.

"The smallest thing that you ever did for them, they were very appreciative," said Steadward. "Much more so than any

able-bodied athlete I'd ever experienced. Sometimes able-bodied athletes take so much for granted and expect so much. These people didn't take anything for granted and didn't expect anything."

Every step forward was a triumph, he said, and people achieved "huge accomplishments" with just a little support.

One of those athletes was national icon Rick Hansen, who in 1985 pushed his wheelchair over 40,000 km and through 34 countries. The Man in Motion World Tour raised more than \$26 million for spinal cord research. Now head of the Rick Hansen Foundation, Hansen says Steadward has been an important influence on his own career since the mid-'70s.

"There's no question, as an athlete, he had a big impact on me, as a supporter of the Man in Motion Tour, but also work-

ing with him and watching him pull together such a global initiative like the International Paralympic Committee," said Hansen. "A lot of credit should go to Bob in terms of the status and recognition of athletes with disabilities in the world today."

"You can't help but be inspired by Bob. He's a talented, bright guy, he listens, and he's a good communicator. When you put the package together, it's a pretty potent force. And he's grounded by an appreciation and caring for people."

However, in those early days, convincing people in Canada, and then around the world to take sport for the disabled seriously was an uphill battle. But Steadward "never looked back," said McPherson. "He had a lot of passion and energy, and it

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Psychology student project on the air

Assignment had real-world applications

By Michael Brown

Done right, teaching can have an impact beyond the lecture hall. Done exceptionally well, those lessons take on lives of their own.

That's what has happened with the Psychology 400/409 Honours Seminar II full-year course Connie Varnhagen taught last year – its effects are still being felt today.

"The goal of the class is to help students develop professional skills in communications, information literacy, time management, team work – all that sort of stuff," said Varnhagen. "As professionals they need to be able to transfer their research to a lay audience. You can't go tell your grandmother that you're studying aggression in convict cichlids because grandma's not going to know what you're talking about and why you would be studying fish."

"You have to be able to talk about what you're doing in any science in terms that any layman can understand and that helps society advance."

As one of their major assignments, each of three groups of students selected a target age group and a relevant health topic for that group. The students then translated the latest research on that health topic into an appropriate visual medium for their audience.

One group selected children and stress. They realized that they needed to target parents and decided that a public service television announcement would be the best medium for disseminating information about stress among kids. Working with KidsHaveStressToo.org, a program of the Psychology Foundation of Canada, a local filmmaker and child actors, the group produced a 30 second public service announcement that is currently airing on City TV Edmonton and Calgary.

"There are so many pressures on kids that we thought it would be good just to raise awareness of it," said Emily Handford who, along with Karen Ross and Stephanie Yan, produced the dramatic commercial that puts children in adult situations, to communicate the fact that children suffer from stress as much as adults do. "It already had a well-developed website around it so we decided to make a commercial around it, to hopefully send people to the website and raise awareness about it."

With a budget of \$500 and the help of local filmmakers Tyler MacIntyre and Ian Ketehe, the threesome went about begging and borrowing their way to a television commercial.

"Karen had the idea of having kids dressed up in actual office attire," said Handford, whose team borrowed kids from their own families and a local theatre group. "The idea was these are some things that cause stress in adults, and although that doesn't cause stress in kids it kind of grabs people's attention."

The group consulted with U of A sociology professor Lisa Strohschein, who conducts research into the effects of divorce and different stressors on children, to help develop the commercial's theme, and then



On the set of the Kids Have Stress Too commercial: psychology students helped the non-profit group spread its message. View the commercial at: expressnews.ualberta.ca/article.cfm?id=8845.

put it into script form on the advice of Silvana Babchishin, a television commercial writing instructor. From there it was a day of lights, camera, action.

"Our hope was to get it on TV eventually," said Handford. "At the end of class we had the commercial done, and Karen did a lot of work over the summer to finish off the process of getting it on TV."

Because KidsHaveStressToo.org is a non-profit organization, the commercial is categorized as a public service announcement, which TV stations run for free. As

luck would have it, City TV agreed to run the announcement in its Edmonton and Calgary markets 12 times a week from October - December.

"It was kind of cool when I came across it on late-night TV, but my sister phoned me and said she saw it on Ugly Betty in prime time on Sunday night," said Handford. "That was more than we ever hoped for."

The TV exposure was just one of three success stories that last year's class produced.

Another group selected the diagnosis of schizophrenia in young adults for their

project. With the help of the Edmonton Chapter of the Schizophrenia Society of Alberta, the students designed a series of facts-and-myths posters entitled Let's Talk Schizophrenia that was displayed in a poster campaign in the City of Edmonton's transit fleet.

A third group selected the issue of HIV/AIDS among seniors. Working with pharmacists and several local HIV/AIDS groups, the students developed a brochure, AIDS Doesn't See Age, targeted specifically for older adults. ■

Steadward hall of fame induction

► Continued from page 4

allowed him to tap into those human and intellectual qualities that he possessed. He could see where he could make a contribution, and with Maury's leadership and encouragement, he just took off."

Steadward spent almost two decades logging an amazing average of 400,000 miles per year, knocking on doors, promoting not only sport for the disabled, but also their right to a decent quality of life.

"One of the greatest struggles was getting into some of the smaller Third World countries to encourage governments and institutions to provide opportunities for

people with disabilities to lead as normal a life as possible – to be independent and self-supporting and contributing members of society," he said. "To deal with those countries was very difficult, because you had to change people's attitudes – that's the single biggest barrier people with disabilities face."

Steadward knew he had to take on the International Olympic Committee if he really wanted to make a difference globally. "So I jumped in my bulldozer, and if I hit a bunch of bushes and trees that I had to whack down, I did ... It was a huge challenge to get the IOC to accept this as a

legitimate sporting movement."

Steadward eventually became the founder of the International Paralympic Committee and its president from 1989 - 2001. He helped increase the IOC's membership from 37 countries to nearly 200, resulting in expanded access to sport for disabled people worldwide.

He is now retired, but his tremendous legacy lives on. In addition to the international paralympic sport movement, there is the ongoing work of the U of A's Steadward Centre for Personal and Physical Achievement, which has

recently renewed its program teaching motor skills to disabled children, involving more than 200 families. The centre has also started working with soldiers injured in Afghanistan, says Steadward.

He was inducted into the "builder" category of the Sports Hall of Fame. With typical modesty, he said the news did come as a surprise.

"I thought they were calling me to be a reference for someone else to be inducted. I had no idea I would be considered to be inducted. It was really unbelievable, and very humbling." ■

Pulling it all together

With diabetes researchers under one roof, collaboration is key

By Michael Brown

No matter how grand buildings are, they can't cure diseases; the people inside do. What a successful building does, however, is inherit the hope of those awaiting discovery, who become the outward symbol of those who toil inside.

This week, the Alberta Diabetes Institute (ADI) opened its doors as a centre of diabetes research that will not only chart the course for research worldwide, but create a benchmark by which medical research centres will be measured.

ADI is a state-of-the-art multidisciplinary research centre dedicated to discovering new methods to prevent, treat and cure both Type 1 and Type 2 diabetes. As Canada's largest free-standing diabetes research centre, in terms of its size and number of staff, ADI is using a multidisciplinary approach involving 35 principal investigators from five faculties including Agriculture, Forestry, and Home Economics; Medicine and Dentistry; Pharmacy and Pharmaceutical Sciences; Physical Education and Recreation; and the School of Public Health.

Because research into and treatment of diabetes has so many facets, the idea behind the ADI is one of collaboration, where ideas are freely exchanged between disciplines in an effort to better fight a disease that currently affects 2.25 million Canadians.

"It's been a six-year project, a little longer than we thought, but it will be the No. 1 diabetes research centre in Canada if not in North America," said Dr. Ray Rajotte, long-time diabetes researcher and former scientific director of the ADI. "But it really has been a team effort for 35 years that has brought us to where it is today."

After years of diabetes research and team building, Rajotte's dream of seeing the successful treatment of diabetes was realized when the U of A Islet Transplant Group, led by Dr. James Shapiro, published results of the Edmonton Protocol, a procedure of transplanting healthy islet cells into patients with severe Type 1 diabetes. The transplant allows patients to regain control of their blood sugar levels. Widely billed as the most important advance in diabetes research since the discovery of insulin, Shapiro's findings solidified the U of A's status as a world centre for diabetes research.

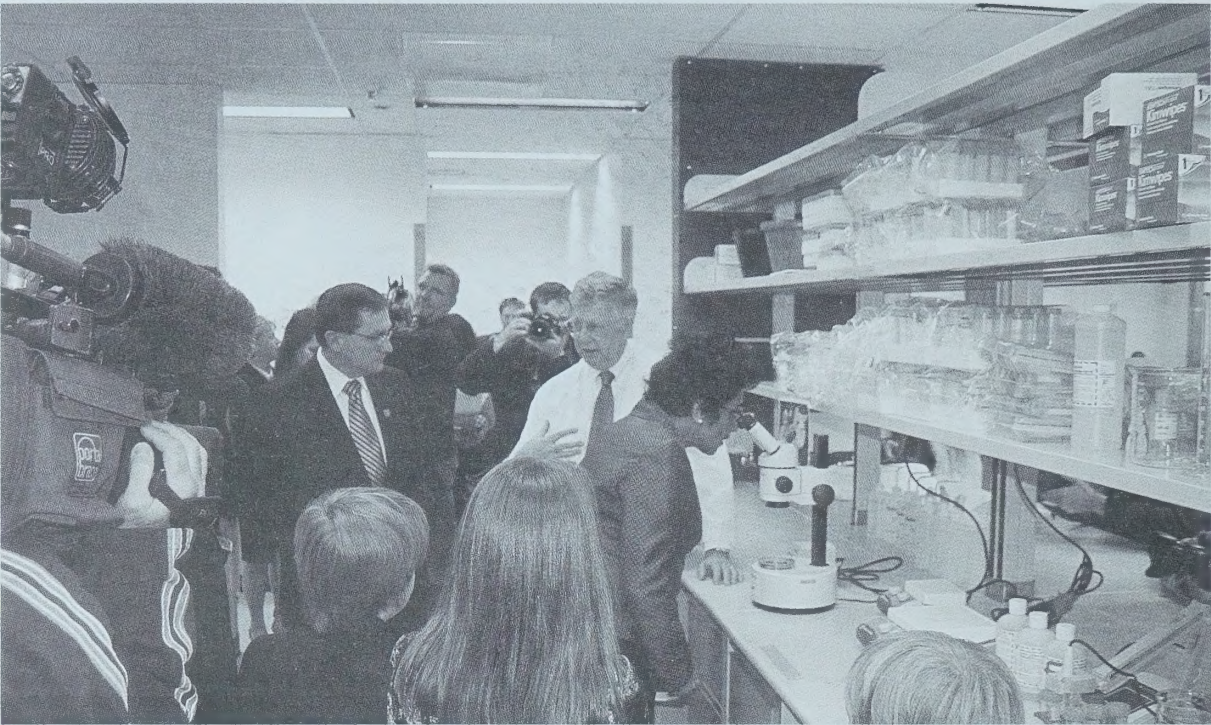
However, that was more image than reality in many respects – individual diabetes research teams were scattered throughout the campus in isolated pockets of thought.

"I had my first lab way down in the basement of the Surgical Medical Research Institute, and in jest I say – but it's true – my first research station was in the bathroom back in the 1970s," said Rajotte, who began talks with the various stakeholders about building an islet institute in 2000.

"We met and thought 'Well, it might be islets today, but it might be something different tomorrow.' So instead of something a bit narrow and just building an islet institute, we decided to build a diabetes institute."

Rajotte envisioned a centre that covered all aspects of diabetes research, including exercise physiology, nutrition, population health, beta cell signalling, immunology of diabetes, basic research in islet transplantation for clinical application, xenotransplantation and tissue engineering for clinical transplantation.

"Having everybody work together, especially the graduate students, rubbing



Alberta Diabetes Institute director Dr. Ron Gill discusses diabetes research with Alberta Premier Ed Stelmach, while U of A President Indira Samarasekera peers into a microscope, at the institute's official opening.

elbows and having coffee together, you have a much easier exchange of ideas," said Rajotte. "Even though the nutritional group is just over there, having everyone working under one roof is very synergistic and very conducive for collaboration."

It just so happens that relieving the congestion that came with heavy Faculty of Medicine & Dentistry recruitment in recent years was also fresh on the university's mind. So in September of 2003, Rajotte and other ADI stakeholders partnered with the university in the construction of the 65,000-square-metre Health Research Innovation Facility (HRIF), which is spread over two buildings (East and West) on the south side of 87 Avenue west of 112 Street. When all is said and done, the ADI will occupy about two-thirds of the HRIF – East.

Of the \$300 million used so far in the construction of the HRIF, the Alberta government has contributed \$246 million. For its purposes, the ADI itself was able to secure Canada Foundation for Innovation (CFI) funding to the tune of \$28.5 million, a pledge of \$10 million from the Alberta Diabetes Foundation, as well as dollars stemming from an impressive number of generous private donors.

And while it has been said that buildings are nothing without the people inside, collaborative efforts are nothing without good leadership. With the institute's guiding light turning 65 this year, Rajotte says the ADI needed a fresh set of legs to carry its ideology to fruition.

That's when the ADI turned to Dr. Ron Gill, formerly a professor of medicine and immunology at the University of Colorado Health Sciences Center in Denver. Gill was also director of the University of Colorado Transplant Immunology Program, a member of the Barbara Davis Center for Childhood Diabetes, and director of the Islet Cell Resources Program at the University of Colorado, developing clinical islet pancreatic transplantation.

"During the process of moving in, amid all of the bumps and bruises sometimes I'm ready to run away into the wilderness," said Gill. "But as you meet with some of these people, it's like 'Oh yeah, that's why

I'm here – it's just the range of people.'"

The draw for Gill was not necessarily the size of the institute but rather the ability to do things qualitatively different because of the disciplines involved. "That was No. 1. The next thing was a major intangible that begins with Ray Rajotte."

"Sometimes I feel like Ray's adoptive academic," said Gill. "We share the intangible about the philosophy of training and team building, and that academia doesn't do that very well. Academia can easily be very Darwinian and competitive and destructive rather than constructive."

Instead, Gill abides by the laws of serendipity.

"You never know who is going to bring something in," he said, comparing the previous approach to diabetes research to the one undertaken by the fabled blind men and the elephant.

"A person might study the ear and get really good at 'earology', and you would never know it was an elephant unless you put it together with all the other parts. No matter how much you study the ear, you are never going to know everything about the elephant. Diabetes is the elephant."

The fact that there are five faculties representing a plethora of departments at the ADI shows the breadth of the disease.

"If you name an organ system, it will be affected by the disease: the nervous system, the circulatory system, the digestive system, blood lipids, nutrition, immunology: you name it, it affects it," said Gill. "Whether it is Type 1 or 2, they are equal opportunity killers. Whether it is Type 1 or Type 2, at the end of the day you can't control your blood sugars and things happen to you."

"It's like the cure for cancer: it is multiple diseases, and it's not like we're going to get a magic bullet that cures cancer. It's going to be won by winning a series of skirmishes."

The first battle, however, will be won in the minds of ADI researchers as Gill attempts to arm the rhetoric of a free flow of ideas with a little substance. The design of the ADI will help with this process: each principal investigator's wet lab will exist

"It's like the cure for cancer: it is multiple diseases, and it's not like we're going to get a magic bullet that cures cancer. It's going to be won by winning a series of skirmishes."

– Ron Gill

in an open concept, surrounded by a series of core labs open to all, with discretionary rooms for grad students and head researchers alike to hang out in rooms where Gill said he envisions the beginnings of a "Dead Immunologists' Society."

"Labs are often like a food court where each lab is its own closed-off franchise, and if researchers did anything with the lab next door it was strictly by accident," said Gill, explaining that, besides the smoother passage of ideas, this open concept allows for a wider usage of the ADI's cutting-edge technology.

"Some of this equipment we've priced out of the franchise. It's like asking one McDonald's to buy a \$2-million hamburger flipper. You have this high-end specialized equipment that takes a lot of training to use and is expensive, so you raise the bar for anybody to have access to it."

It's up to Gill to make this new way of working stick.

"The highest value of scientists is their ideas," he said. "When you start surrendering complete control of your ideas you are potentially sacrificing your equity – unless you work in a group where clearly that's not going to happen."

"Researchers are kind of a goofy high-maintenance crowd, me included. But you have to have a brand of person that's going to buy into this idea that realizes that 'I don't lose by helping you'."

"The only person I've met in my career that shares the same values I do is Ray." ■

A history of breakthroughs

The U of A remains at the forefront of diabetes research

By Michael Brown

The Edmonton Protocol's recent heroics in the diabetes treatment, while extraordinary, didn't mark the first time University of Alberta research turned the tide in the fight against diabetes. And, thanks in part to the Alberta Diabetes Institute (ADI), it probably won't be the last.

Nearly 80 years before U of A researcher Dr. James Shapiro performed the world's most successful islet cell transplant, James Bertram Collip discovered a way to isolate and refine insulin.

Although history has chosen to largely overlook Collip's contribution, at least one author has argued Collip's efforts were as important as work done by the three scientists who got most of the credit: Frederick Banting, Charles Best and John MacLeod.

Toronto historian Michael Bliss wrote in his 1982 book *The Discovery of Insulin* that the team's achievement was clouded by a good deal of petty jealousy and backstabbing, mostly on Banting's part.

In 1915, at the age of 23, Collip was hired by the U of A to lecture in biochemistry and physiology. By 1921, he was head of the new Department of Biochemistry and had established himself as an experienced researcher with 23 academic publications, most concerning problems of blood chemistry.

As a relatively inexperienced scientist, Banting knew he needed Collip's chemical expertise. The crude extract Banting and Best had come up with to treat diabetics was only partially successful in lowering blood sugar in diabetic dogs; the active ingredient or "mysterious something" responsible for aiding in the metabolism of carbohydrates required further purification. Collip accepted an invitation to work with Banting and spent part of a sabbatical with Banting, Best and MacLeod in Toronto.

Banting, on the heels of an ill-advised clinical failure on human patients at Toronto General Hospital, looked on as Collip struck gold.

"I experienced then and there all alone in the top storey of the old Pathology Building perhaps the greatest thrill which has ever been given me to realize," Collip wrote on the night of this crucial discovery.

What soon followed was the now-legendary physical confrontation between Collip and Banting during which Collip, impatient with Banting's competitive attitude, threatened to keep the purification process to himself.

Differences were temporarily ironed out, however, and Collip's new extract was tested on 14-year-old Leonard Thompson, a severely diabetic patient. The results

were unambiguously favourable. Although it was still to undergo further refinement, insulin was a success. What had been a painful, devastating disease had become manageable, and MacLeod and Banting were awarded the Nobel Prize for Medicine.

Fast forward nearly 50 years to 1972, when U of A bioengineer Ray Rajotte sat in on a talk by American researcher Paul Lacey, who had cured diabetic rats by transplanting Islet of Langerhans cells from a healthy rat. Rajotte, whose interest at that point had included cryopreservation of stomachs and kidneys, decided then and there that maybe there was a niche for his work.

Rajotte thought Lacey's research wasn't advancing because of problems trying to freeze kidneys. "I thought . . . Maybe I should try to learn how to isolate islets and try to freeze them. Maybe they'll have some sort of clinical application down the road."

Rajotte spent the next few years in research labs in every corner of the United States learning everything he could about isolating islets before returning to the U of A and piecing together an islet team.

Isolating the insulin-producing islets posed a problem. However, if donor islets could somehow be isolated, it was postulated that they could be injected into the liver. There, the islets would become revascularized and perform their duties as usual, away from the besieged pancreas, the site where the diabetic's immune system inexplicably attacks healthy islets. With any luck, such a transplant – accompanied by a proper anti-rejection drug regimen – could allow a Type 1 diabetic to be free of insulin injections.

In 1989, Rajotte's islet team carried out Canada's first islet transplant.

"The first two patients got an insulin reduction requirement, but they didn't quite get off insulin," said Rajotte, explaining that his team reconfigured the procedure for a third patient to double the number of islets, by using both fresh and cryopreserved samples. The result was short-lived insulin independence.

"From '89 to '99, 269 transplants were carried out worldwide, but only eight per cent got off insulin, so that was a disappointment."

Undeterred, Rajotte continued to build the U of A's islet team. James Shapiro was recruited to the U of A where he worked on his PhD, studying the screening of new anti-rejection drug and steroid combinations for possible testing on islet transplantation. He went on to stops in Vancouver, Japan and the University of Maryland. In



Snubbed by history, U of A biochemistry professor James Bertram Collip discovered a way to isolate and refine insulin.

1998, Shapiro was recruited back to the U of A with a mandate to reactivate a stalled Clinical Islet Transplant Program.

Along with Dr. Jonathan Lakey, Shapiro developed what came to be known as the Edmonton Protocol, and on March 11, 1999, Bryon Best, a teacher from the Northwest Territories, was the first person to receive an islet transplant that employed the drugs and novel techniques devised by Lakey and Shapiro. Within a week the patient no longer required insulin injections and was able to maintain a steady glucose count.

"In the initial design, there wasn't a eureka moment because it was built out of absolute desperation; all the previous transplants weren't working, the approach was failing," said Shapiro, explaining that it was not just a single alteration to the previous islet transplant method, but rather a series of steps used to help enhance the success rate.

"I was so busy . . . we didn't quite realize how successful this was until we analyzed the results in the first seven consecutive patients that were treated with this protocol."

"The moment I realized that all seven patients were completely free of insulin at the time that we analyzed them, that was a big, big moment. All of a sudden there was this brand-new protocol. We had 100 per cent of patients off insulin. I think at that moment there really was a eureka moment not only for the team but for the patients involved."

Still, Shapiro says that although his findings have led to more than 100 straight successes at the U of A alone, "one has to be realistic."

"It's remarkable, but it's not enough," said Shapiro, who is introducing the

Edmonton Protocol to diabetes treatment programs around the world. "There are 2 million Canadians with diabetes and many more millions worldwide. If we're really going to have an impact on most patients, we're going to have to have something far better than what we have even now. So, you don't get dizzy with the success; you focus on what is needed to take us to the next step."

Although the Edmonton Protocol has lasted on some patients from the moment that the cells were transplanted until now, its impact has faded on some patients, who are now using small amounts of insulin. These relapses and the lifetime of anti-rejection drugs has forced Shapiro back to the drawing board, which now sits in the newly minted ADI.

"The way I like to think of it is we are going to leave no stone unturned until we get to a point where we have a true cure for this terrible disease," said Shapiro who, in 2005, took the Edmonton Protocol a step further by carrying out a transplant from a living donor. "There are many different avenues yet to be explored."

Beyond the Edmonton Protocol, other treatments – like the use of pig islets as a viable alternative to the limited supply of human islets – are now on the horizon, and one day may write a chapter in the U of A's diabetes story.

"What really matters at the end of the day is how people interact and what new ideas come forward to allow one to move forward to the point where you have a cure," said Shapiro. "You can't guarantee that a new building will establish that, but it will certainly help." ■



James Shapiro led the team that achieved success with the Edmonton Protocol treatment of Type 1 diabetes.



Edmonton Protocol pioneer Ray Rajotte put in years of research to find a way to transplant islet cells.

University thanks staff for dedication

Recognition awards come from colleagues

By Richard Cairney

The university is presenting its annual Support Staff Recognition Awards and its APO-FSO-Librarian Recognition Awards at the Horowitz Theatre Nov. 19 at 3 p.m., at which time it also presents long-service awards.

The recognition awards recognize support staff and APO-FSO Librarians for contributing to a positive culture, being ambassadors for the university, and giving the best of themselves in the workplace. This year's recipients are:

APO-FSO-Librarian

Phil Stack joined the U of A in 1996 as executive officer to Dr. Lorne Tyrrell, then dean of the Faculty of Medicine and Dentistry. Today, Stack serves as director of resource planning, supervising a staff of 13 people.

His group is responsible for the integrated budgeting process the university operates on – it involves close working relationships across each of the vice-president's portfolios and with several key units, such as the university's infrastructure planning and financial services.

"It is a big, diverse team that comes together to make this happen," Stack said of the process which leads to the creation of three key documents: the University Plan, the Four-Year Capital Plan and the annual Budget and Three-Year Forecast.

It sounds like a lot of responsibility and stress, but Stack tries to keep a positive atmosphere in the workplace and strives to balance his professional and work life.

A bulletin board in the hallway has M&M Awards tacked to it – Momentum Moment Awards presented to team members during staff meetings. The reward includes a bag of M&Ms for staff members who have done a particularly good job. The bulletin board also features photos from retired staff members, an office bowling outing and awards from external organizations.

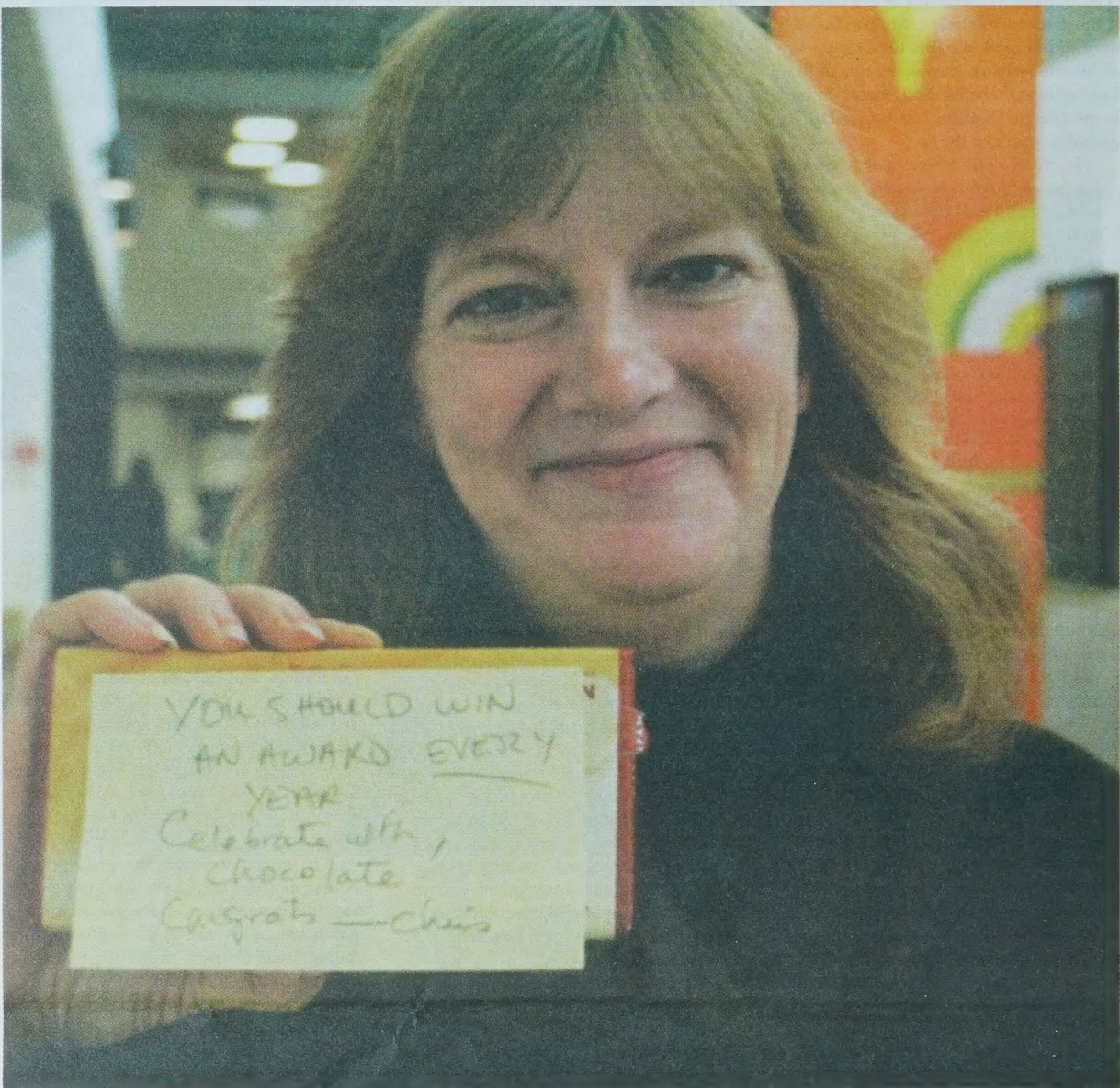
A father of two, Stack is an avid runner, and he coaches one of his son's hockey teams and is a fan for the other's team.

He's also active in professional associations and is co-chairing the Society for College and University Planning's international conference in Montreal next year.

Earning the award was exciting. "I had no idea this was going on," said Stack.

Left in the dark when it comes to awards, yes, but Stack does know what keeps him coming back to work every day: a belief in the university's mission.

"It's the future of this institution that gets me excited," he said. "It's the excitement and enthusiasm of the students, the incredible capacity of our research scientists and the vision of our president – these are all things that I can contribute to in a



Mary Marshall Durrell has earned the praise and respect of her colleagues – and chocolate!

meaningful way."

Mark Ackerman joined the University of Alberta Faculty of Engineering in 1979, when he was heavily involved in studies of energy efficient homes. Today his work involves setting things on fire.

Well, that's the simple version. More specifically, Ackerman works as a Faculty Service Officer in Engineering and is involved with the Department of Human Ecology's Protective Clothing and Equipment Research Facility, Canada's only flash-fire research facility.

"I do all the things any other academic does around here – I have a research pro-

gram – I spend a good part of my summer up in the Northwest Territories setting huge fires," he said.

Ackerman has picture to prove it – the walls of his office are lined with images of forest fires and their aftermath.

"We look at wildland fire operations . . . my area is performance of protective equipment we spent quite a bit of time doing development of a new fire shelter with U.S. forestry service."

He also serves on committees and conducts a senior design course for fourth-year students in which companies present technical problems they're grappling with to students. The students, in turn, propose

working solutions.

Ackerman is involved in student projects such as the SAE Formula race car and a heavy lift aircraft design project.

"I think it's because I never learned to say no," Ackerman said of his full schedule.

And while receiving the recognition award is "really nice," Ackerman says the job has its own rewards.

"The payoff is that this is a pretty neat place to work. I cannot imagine having a job where you wake up and don't want to go to work. It would be hell on Earth. One of the most interesting places in the world is a university because everyone is doing something interesting."



Mark Ackerman says he can't imagine having a job he doesn't look forward to every day.



Donna Richardson says a staff recognition award helps her feel more valued as a team member.

Support Staff Recognition Award

Mary Marshall Durrell is an undergraduate advisor in the Department of English and Film Studies who has clearly made a positive impression. During an interview to discuss her recognition award, professor Christine Wiesenthal strolls by purposefully, and deftly slips Marshall Durrell a gift – chocolate, with a hand-written note offering her congratulations.

Marshall Durrell has been at the U of A for 18 years – when she started, her job was categorized as a ‘records clerk.’

“The position has evolved quite a bit over the years, and it is still a great position – it’s never the same day twice,” Marshall Durrell said.

She handles student questions on everything from simple scheduling to complaints, handles course schedules and organizes a departmental awards event. More serious queries of an academic nature are referred to an academic advisor, but Marshall Durrell is at the front line – she is the face of the university to many students.

“Some of them have come from small towns and this place is so big and overwhelming,” she said, noting that stress levels are typically high at the beginning of the school year.

Marshall Durrell clearly enjoys dealing with students – one of which has become a U of A professor.

“Thomas Wharton did his masters here a few years ago,” she said of the English professor and International IMPAC Dublin Literary Award-nominated author. “And there was another student – Matthew Skelton, who wrote that fantasy novel *Endymion Spring*.”

And while she clearly enjoys her job, Marshall Durrell feels a little self-conscious about earning an award.

“I just heard about this the other day and frankly, it feels a little weird,” she said.

But if there’s chocolate involved, well, how bad can it be?

“Oh my word,” she said. “Marzipan – it’s lovely!”

Donna Richardson is one of those people who can’t sit still. Not unless she’s digging into a project of some sort, that is.

Richardson started working at the U of A in October, 1999, as a part-time communications co-ordinator for the Centre for Health Promotion Studies. Things have changed – today she is manager



Lee Ramsdell (front), with colleagues Scott Wierstra (back), Grant Wong (left) and Clare Peters.

of faculty communications for the new School of Public Health.

“I guess what keeps me going is that I am the kind of person who doesn’t like work that is ‘make-work.’ I like knowing I am making a real contribution,” said Richardson, who also

feels a passion for the work the university, and her public health colleagues in particular, do.

“A couple of months ago I hired someone, and during the interview, because of the way the job market is, she asked me ‘Why should I come and work here?’ And



Phil Stack’s office oversees the development of university budget documents – it can be a high-pressure environment. Stack likes to make sure his colleagues are recognized for their achievements.

I said that I thought she’d find a real alignment between her values and the university’s. So I think that’s another thing that keeps me going.”

“There are lots of days here when it is stressful, but parts of every day that are fun.”

Richardson has worked with academics who are at the top of their field – earning much-deserved praise and accolades. So to be on the receiving end of an award means a lot.

“This is an absolute highlight,” she said. “I am surrounded by so many very accomplished people and this is just thrilling. What drives me is to know my work is valued, to know I am a valued member of the team.”

Lee Ramsdell gets a little flustered talking about the Support Staff Recognition Award he’s being presented with.

“I really don’t know what to say. I’m somewhat humbled – it’s awkward,” said Ramsdell, who is the technical supervisor of the Arts Resource Centre in the basement of the Old Arts Building.

The centre houses the computer-assisted language learning centre and a bank of audio and video recordings is housed in Ramsdell’s work area – students make a request from the centre and the recordings kick in.

It also hosts an instructional design group that assists academics and graduate students with various software programs, and his group provides multimedia service to the faculty and in some cases, like the recent launch of the Lois Hole Digital Library, provides video conferencing across campus.

“I am surrounded by an incredible group of people and if the truth be known, that is who should be recognized,” he said. “It is an incredible honour but without the rest of the team none of this happens.”

Ramsdell cites a project his office took on a little over a year ago. A group of students had been given assignments to make documentaries about life in the city’s Latino community. Ramsdell referred the students to his video technician, Grant Wang, who provided incredible support.

“You look at those documentaries and they look like they were produced by National Geographic,” Ramsdell said. “I supervise Grant but he’s the man with the magic. We do a lot of really good work here but it isn’t just one person.” ■

talks & events

Folio Talks and Events listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you’d like to appear in Folio and on ExpressNews at: <http://www.uofaweb.ualberta.ca/events/submit.cfm>. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: 12 noon one week prior to publication. Entries will be edited for style and length.

UNTIL JAN 14, 2008

Golden Cockerel’s Polite Erotica: A Legacy of Endurance and Distinction Featuring illustrated books from one of the great British private presses of the early twentieth century. Many of the books feature nude engravings, an expression of the owners’ ideas about bookmaking. Bruce Peel Special Collections Library. (Curator: Robert Desmarais) Admission is free and library hours are posted online. Rutherford Library, North and South (Humanities and Social Sciences) <http://www.library.ualberta.ca/specialcollections/index.cfm>

UNTIL FEB 28, 2008

Influenza Campaign 2007 (University Health Centre) The University Health Centre offers influenza shots to students, their immediate family and staff at the University of Alberta. Rates are as follows: Students: \$8, non-Students: \$15.00 The flu vaccine is free to: Health Care Professionals and students in health faculties working hands on with patients. Individuals at high risk of being infected by the virus. Individuals considered capable of transmitting influenza to persons who are high risk. For information on eligibility for the free vaccine please refer to Capital Health Authority’s website at www.capitalhealth.ca/YourHealth/Campaigns/FluSeason2-200 Students’ Union Building (SUB) <http://www.ualberta.ca/healthcentre>

UNTIL NOV 17, 2007

Emanations and other ghosts - Andrea Pinheiro (MFA Printmaking) This exhibition is the final visual presentation for the degree of Master of Fine Arts in Printmaking. Gallery Hours Tuesday-Friday: 10 a.m. – 5 p.m. Saturday: 2 – 5 p.m. 1-1 FAB Fine Arts Building Gallery

Vestiges: Fragility of Being - Sherri Chaba (MFA Drawing & Intermedia) This exhibition is the final visual presentation for the degree of Master of Fine Arts in Drawing & Intermedia. Gallery Hours Tuesday-Friday: 10 a.m. – 5 p.m. Saturday: 2 – 5 p.m. 1-1 FAB Fine Arts Building Gallery

NOV 16, 2007

Food and Health Day The Canadian Association of Geographers have declared “Geography Awareness Week Nov 12 - 16”. Each day of the week has a different theme. Nov 16 is “Food and Health Day”. Students of EAS 394 (Issues in Human Geography) will display posters in the Business-Tory Atrium. 9 a.m. BUSINESS ATRIUM Tory Breezeway http://www.cag-acg.ca/en/news_index.html_geography-awareness-week.html

An Ethical Analysis of Growth Attenuation in Children with Developmental Disabilities Health Ethic Seminar 12 noon - 12:45 p.m. Room 207 Heritage Medical Research Centre <http://dossetor.centre@ualberta.ca>

What’s Bugging Wild Critters: Alberta’s Approach to Wildlife Disease Management Margo Pybus, Alberta Sustainable Resource Development is presenting. 12 noon M-145 Biological Sciences <http://www.biology.ualberta.ca/courses/biol631/?Page=326>

Dentistry Brown Bag Lunch Hour Seminar: Application of Temporary Anchorage Device in Limited Adult Orthodontic Treatment Dr. Budi Kosnoto, DDS, MS, Dept of Orthodontics, University of Illinois, will be speaking on the utilization of the mini-screw implant device as an alternative to conventional orthodontic anchorage. 12:05 p.m. - 1 p.m. 4069 Dentistry/Pharmacy

Purchasing Part Two: Payment Processes at the U of A, Contracts and Services, Competitive Bid Process and CFI Purchases This workshop is open to all faculty, administrators, students and staff in the Health Sciences. It will cover how to pay for the purchase of goods and/or services; an introduction to some less commonly used methods of purchasing; how to arrange contracts for construction, renovation, services and maintenance agreements, when must you use the competitive bid process and how does it work; procedures for purchasing using CFI funding; and why you must co-ordinate with Supply Management Services and the Research Services Office. 2 - 3:30 p.m. Room 207 Heritage Medical Research Centre <http://rsoregistration.ualberta.ca/CourseDescription.do?courseid=2398>

Border Security: Cell Envelope Stress Responses in Gram-negative Bacteria Sarah Ades, Department of Biochemistry and Molecular Biology, Penn State University is presenting a seminar on “Border Security: Cell Envelope Stress Responses in Gram-negative Bacteria.” 3:30 p.m. M-149 Biological Sciences <http://www.biology.ualberta.ca/courses/genet605/?Page=399>

Final Draw Everyone returning a pledge to the campus United Way campaign by 4 p.m. Nov. 16 will be eligible to win an airline ticket on Air Canada for travel anywhere in North America. 4 p.m. Senate Office Assiniboia Hall <http://www.uofaweb.ualberta.ca/unitedway/>

Celebrating Ingenuity 2007 An annual event to celebrate and honour Ingenuity award recipients. Alberta Ingenuity is pleased to host guest speakers Peter Singer and Abdallah Daar from the University of Toronto’s McLaughlin-Rotman Centre for Global Health, who will be talking about how the globalization of life sciences can make the world a fairer, wealthier, and healthier place. 6 - 9 p.m. TELUS Centre <http://register.albertaingenuity.ca/VIEWS/Public/Events/>

Pandas Basketball Pandas vs. Regina 6 p.m. Main Gym www.cubsclub.ualberta.ca

Pandas Hockey Pandas vs. UBC 7 p.m. Clare Drake Arena www.cubsclub.ualberta.ca

Bears Basketball Bears vs. Regina 8 p.m. Main Gym www.cubsclub.ualberta.ca

NOV 16 - 18, 2007

From Crisis to Hope: Building Just and Sustainable Communities The keynote will be held at the Horowitz theatre. Saturday and Sunday's programming will be held in the ETL. Details about the conference will be posted at www.ualberta.ca/parkland as they become available. 7:30 p.m. Horowitz Theatre <http://www.ualberta.ca/parkland>

NOV 17, 2007

Canadian Medical Protective Association (CMPA) Mock Trials for Physicians 8:30 a.m. - 12:30 p.m. Bernard Snell Hall Walter C Mackenzie Health Sciences Centre (University Hospital) http://www.cplregistrations.med.ualberta.ca/eventinfo_1749.html

Pharmacy Career Fair Pharmacy students and alumni are invited to the Pharmacy Career Fair. Meet with employers who are recruiting students and graduates for Pharmacy positions. 11 a.m. - 3 p.m. 2-000 Students' Union Building (SUB) http://www.ualberta.ca/CAPS/CaPS_a3-1.html

Philosophers' Café Come join us for the Philosopher's Café, an outreach program of informal learning co-sponsored by the Office of Alumni Affairs and the Edmonton Public Library. Open to the public, drop-in and participate in stimulating conversation about a topical or philosophical issue. Next Café: Balancing Priorities - Where Should Government Funding for Health Research be Spent? Guest Speaker: Dr. Malcolm King Principal Investigator, Alberta ADACRE Network and Professor, Division of Pulmonary Medicine Admission is free. 2 p.m. - 3:30 p.m. <http://www.uofaweb.ualberta.ca/alumnieducation/nav01.cfm?nav01=68368>

Bears Football CIS Semi Final 5 p.m. www.cubclub.ualberta.ca

Pandas vs. Brandon 6 p.m. Main Gym www.cubclub.ualberta.ca

Pandas vs. UBC 7 p.m. Clare Drake Arena www.cubclub.ualberta.ca

Bears Basketball
Bears vs. Brandon 8 p.m. Main Gym www.cubclub.ualberta.ca

NOV 18, 2007

Theology on Tap - "Thou Shalt Not Kill: Can War Ever Be Just?"

Discussion with Bob McKeon, professor of Systematic Theology & Social Teaching Newman Theological College. You are invited to an afternoon of lively, stimulating and provocative theological repartee over a cold beer, tea or coffee. Sponsored by the U of A Interfaith Chaplains' Association 3 - 4:30 p.m.

University of Alberta Academy Strings
Tanya Prochazka, Conductor. Purcell Two Suites: The Fairy Queen, Z.629; R Vaughan Williams Fantasia on a Theme by Thomas Tallis for string quartet and double string orchestra; Elgar Sospiri Opus 70 for strings, harp and organ; Tippett Concerto for Double String Orchestra 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

NOV 19, 2007

Synthesis and Study of Depsipeptide Antibiotics that Inhibit Bacterial Cell Wall Biosynthesis Department of Chemistry Visiting Speaker lecture presented by Professor Michael VanNieuwenhze, Department of Chemistry, Indiana University, Bloomington, USA 11 a.m. MEC 2-1 Mechanical Engineering

How to Hire an International Student Trying to get creative in your recruiting plans? Thinking about how to access the growing population of trained, enthusiastic, and available international students and graduates? This is a market that is ready to be hired. And new legislation makes the hiring process easier and faster. Learn about the myths, processes, benefits, and tips on how to hire an international student/graduate. This seminar is open to all and is free of charge. Please register by e-mailing laura.manuel@ualberta.ca 12 noon - 1 p.m. Rm 2-100 (CaPS) Students' Union Building (SUB) http://www.ualberta.ca/CAPS/CaPS_employ-erseminars

Noon Hour Organ Recital A variety of organ repertoire played by students, faculty and guests of the University of Alberta Department of Music 12 noon Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm8>

Yoga and Writing - Writers in Medicine Program. We are pleased to introduce Reinekke Lengelle as our first Writer in Medicine. Reinekke is a published poet and playwright. She was a Writer-in-Residence with the Artist on the Wards program at the University of Alberta Hospital for three years. Writing and yoga have this in common: those who practice master not only the skills, but also themselves. In this workshop, you'll be invited to do guided journal writing and yoga movements with two experienced facilitators. Learn how inte-

grating these practices can stimulate your creativity as well as allow you to slow down and rejuvenate. Yoga will be used in this workshop to open you to deeper levels of expression and creativity. No writing or yoga experience is needed. Bring a journal, a pen and a yoga mat. Registration is required: cynthia.lewis@ualberta.ca 6 - 9 p.m. Bernard Snell Hall Lower Foyer Aberhart Centre <http://www.med.ualberta.ca/education/ahhm.cfm>

NOV 20, 2007

Public Health Seminar Dr. Jeffrey Johnson, Department of Public Health Sciences, School of Public Health will present a seminar entitled, "The Alberta Diabetes Surveillance System: Infrastructure for public health research." This seminar is open to academics, students, practitioners, policy decision makers, and others with an interest in public health. The seminar will be available via TeleHealth. 12:15 - 1:15 p.m. Classroom D, 2F1.04 Walter C Mackenzie Health Sciences Centre (University Hospital) http://www.publichealth.ualberta.ca/publichealth_seminars.cfm

Trying out a Student Response System with the support of Teaching with Technology Initiative (TTI) This event will provide information on how to apply to the Teaching with Technology Initiative. The goal of TTI is to assist instructors in exploring the ways to enhance student learning through the appropriate use of educational technologies. For the Winter 2008 Term, the focus is on the effective use of student response systems. (Other technologies are available, as well.) Letters of interest are due by November 20, 2007. 3 - 4 p.m. 214 TELUS Centre <http://www.ualberta.ca/~tti/projects.htm>

Beyond Treason: The U.S. Government's Long History of Conducting Deadly Military Experiments - Who Protects the Protectors? Film Series This film examines Gulf War Syndrome in the context of the history of U.S. military medical experiments. 3:30 - 5:30 p.m. Basement Room 45 Tory Building, Henry Marshall <http://www.uofaweb.ualberta.ca/historyandclassics/WhoProtectstheProtectors.cfm>

TUESDAY, NOV 20, 2007

Creative Works Readings: Candace Savage Creative Works Readings, presented by English & Film Studies: Candace Savage is the author of more than two dozen books, including 13 on natural history and natural science, and an equal number of magazine features. Her work ranges through the sciences and humanities with books on the aurora borealis, grassland ecology, European witchcraft, and cowgirl mythology, among other subjects. 3:30 p.m. 4-29 Humanities Centre

Comparative structure/function studies on voltage-gated potassium channels Speaker: Dr. Warren Gallin, Department of Biological Sciences, U of A 4 p.m. 7-62 Medical Sciences

University Teaching Services PowerPoint - Animations (S) Animations can enhance or detract from your message. This hands-on session works with the possibilities for animation in a PowerPoint presentation and cautions on the problems associated with adding animation just because you can! Limited computer workstations available; please register and arrive on time to guarantee your seat. Presenter: Kevin Moffitt, Technology Training Centre 5 - 6 p.m. Technology Training Centre Cameron Library <http://www.ualberta.ca/uts>

NOV 21, 2007

Fair Trade at Christmas The Interfaith Chaplains Association is sponsoring "Fair Trade at Christmas." This is a great chance to get some unique Christmas gifts for loved ones, and to support fair trade around the world while doing it. Goods for sale will be supplied by TEN THOUSAND VILLAGES (you may have seen their store on Whyte Ave.), and will be available for purchase at tables in SUB. 10 a.m. - 3 p.m. Main Floor Students' Union Building (SUB)

Gluttony and Sex: The Tick Engorgement Factor Voraxin Alex Smith, PhD Candidate, Department of Biological Sciences, is presenting a seminar in "Gluttony and Sex: The Tick Engorgement Factor Voraxin." 12 noon B58-121 Biological Sciences <http://www.biology.ualberta.ca/courses/biol642/?Page=329>

Public Health Colloquium Series In this session hosted by the School of Public Health, Dr. Don Philippon, co-chair of the Canadian Health Leadership Network will present a seminar entitled, "Canadian Health Leadership Network - An initiative in leadership development. 12 noon - 1 p.m. 13-126 Clinical Sciences http://www.publichealth.ualberta.ca/colloquium_series.cfm

Lunch & Learn: Classic Corporate Characters Every workplace has a variety of characters, with each playing a unique role. In this tongue-in-cheek presentation, we will explore the many characters and their special quirks. Join us for an entertaining look in the mirror. These sessions are free for all staff. Register online at www.learningshop.ualberta.ca 12:05 p.m. - 12:55 p.m. Heritage Lounge Athabasca Hall <http://www.learningshop.ualberta.ca>

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Lunch & Learn: Getting a Grip on Holiday Stress Don't let the stress of the holiday season bring you down. Join us for some fun, creativity, reflection and interaction. Leave with an individual recipe for increasing your joy during holiday season. We will examine expectations, traditions and identify ways to carve out and savour the very best of the season. These sessions are free for all staff. Register at www.learningshop.ualberta.ca 12:05 p.m. - 12:55 p.m. Heritage Lounge Athabasca Hall <http://www.learningshop.ualberta.ca>

Anthropology, Public Policy & Alberta's Affordable Housing Crisis Alina Tanasescu has been a policy analyst with Poverty Reduction Coalition of the United Way of Calgary & Area since 2005 with a primary focus on affordable housing and homelessness. This talk will focus on the role of anthropologists in public policy analysis and advocacy from the perspective of a recent graduate and policy analyst. The discussion will outline the strengths anthropologists bring to the policy making arena and some of the challenges they may face "on the ground". A contextualization of the current homelessness and affordable housing situation, advocacy efforts and successes will also be outlined along with policy options and strategies. Everyone Welcome! 3 p.m. - 4:30 p.m. 14-28 Tory Building, Henry Marshall

Welcome to the Reel World series: The children of Leningradsky The Children of Leningradsky follows a dozen children living in a Moscow train station, documenting the police brutality, substance abuse and panhandling that is part of their daily lives. (35 Minutes, 2004) 5 p.m. 325 CEB <http://www.international.ualberta.ca/globaled.php>

"Climate Wars" Gwynne Dyer will be giving a free lecture entitled Climate Wars. The lecture will be a frank examination of the environmental and political ramifications of climate change in North America and around the world. Visit www.international.ualberta.ca. 7:30 p.m. Myer Horowitz Theatre Students' Union Building (SUB) http://www.international.ualberta.ca/globaled_events.php?id=201

NOV 22 - 24, 2007

25th Anniversary of the Canadian Constitution: Perspectives from the West Guest Speakers Thursday, November 22, 2007 at 7:30 p.m. André Pratte, Chief Editorial Writer, La Presse, November 22, 2007 at 2 p.m. Dr. Miriam Smith, president, Canadian Political Science Association, November 23, 2007 at 7:30 p.m. The Honourable Hugh Segal, Senator, November 23, 9 a.m. - 5:30 p.m. Session 1: Canada Since 1982. Session 2: Rights and Institutions Session 3: Democracy and Public Policy Saturday, November 24, 9 a.m. - 6 p.m. Session 4: Clash of Traditions: Europe, First Nations, Metis Session 5: Political Sovereignty, Perspective from Abroad, and the Future Session 6: Francophonies (Legal Aspect and Community Aspect) For more information or to register, please contact Marie-Claude Levert at 780-485-8635 or levert@ualberta.ca or visit our Web site: <http://iec-csi.ualberta.ca>

Walter Johns Alumni Circle Come back to campus for a regular sampling of the vibrant intellectual and cultural life of the University. This Session: Starve a fever, feed a cold? Does the food in our diet influence how our immune system works? In this presentation, Catherine Field, professor of Nutritional Immunology and member of the Alberta Institute for Human Nutrition in the Faculty of Agriculture, Forestry and Home Economics will explain our recent understanding of how nutrition can influence our immune systems and how what we eat can affect our ability to fight infections. How should governments consult the public? More often provincial and federal governments are adding online polls, public hearings and citizen assemblies to their policy making process. But which consultative mechanism deepens our democracy and which ones are mere window-dressing? David Kahane, Vargo Distinguished Teaching Chair and Associate Professor of Political Science will talk about best and worst practices of public consultation in Alberta and beyond. 10 a.m. - 12 noon Aon Boardroom Alumni House <http://www.uofaweb.ualberta.ca/alumnieducation/nav01.cfm?nav01=14319&CFNoCache=TRUE>

Learning Over Lunch: A Social Justice Video Series A Social Justice Video Series FREE Admission Reaching Out: Library Services for Lesbian, Gay, Bisexual, Transgender, and Questioning Youth. Although not always visible, LGBTQ youth are library patrons. This film highlights the ways in which the library has, can and should serve as a lifeline for these young people. LGBTQ youth speak about their experiences and San Francisco public librarians Jim VanBuskirk and Jennifer Collins, as well as author and activist Jewelle Gomez offer suggestions on how to serve them better. 12 noon - 1 p.m. 128 Education South Education Centre

Cello Masterclass Cello Masterclass With Visiting Artist Marina Hoover, cello 4 - 6 p.m. 2-26 Fine Arts Centre <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Violin Masterclass Visiting Artist Jasmine Lin,

violin 4 - 6 p.m. 2-15 Fine Arts Centre <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

University of Alberta Orchestral Winds and Percussion Angela Schroeder, Conductor. Copland Fanfare for the Common Man Stravinsky Octet Beethoven Octet Reinecke Octet Tickets at TIX on the Square, 420-1757, and at the door. 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

NOV 23, 2007

Doing Community-Based Research Well: Ethically and With Rigour Workshop 2 in a new series sponsored by the Community-University Partnership for the Study of Children, Youth, and Families (CUP). This workshop will be an opportunity to begin to discuss challenging questions by: Introducing the idea of doing CBR ethically (What does ethics mean?) Considering who is seeking to create and exchange knowledge through CBR and why, Describing academic ethics review processes and standards, Introducing the idea of doing quality and trustworthy CBR. During the workshop, Lola Baydala will share her work about, "Creating an Ethical Space: Community-Based Research in Aboriginal Communities". Lunch and refreshments provided. Registration: \$30. Register by Nov. 19, at: <http://www.cup.ualberta.ca/> 9 a.m. - 3 p.m. <http://www.cup.ualberta.ca>

3rd Annual University Hall Silent Auction University Hall staff will be holding a Silent Auction in support of the United Way. Come and bid on treasures from University Hall. 12 noon - 1:45 p.m. Council Chamber University Hall <http://www.uofaweb.ualberta.ca/unitedway/>

Pollen limitation and alternate-year flowering in a perennial wildflower Elizabeth Crone, Quantitative Ecology, College of Forestry and Conservation, University of Montana is presenting a seminar on "Pollen limitation and alternate-year flowering in a perennial wildflower." 12 noon M-145 Biological Sciences <http://www.biology.ualberta.ca/courses/biol631/?Page=326>

Spatial ecology of an endangered butterfly Elizabeth Crone, Quantitative Ecology, College of Forestry and Conservation, University of Montana is presenting. 12 noon M-145 Biological Sciences <http://www.biology.ualberta.ca/courses/biol631/?Page=326>

Interdisciplinary Talk The Departments of Philosophy and Psychology are pleased to announce an interdisciplinary talk by University of Alberta honorary degree recipient Patricia Smith Churchland, UC President's Professor of Philosophy University of California, San Diego 1 - 2:15 p.m. Decisions, Responsibility and the Brain Abstract: As we come to understand the role of genes in neuronal wiring, and neuronal wiring in the production of behaviour, we are newly confronted with questions about choice and responsibility. From the perspective of neurophilosophy, Churchland will address some of the broad questions in this arena, including the theological and metaphysical contention that free choice is uncaused choice, and the proposal that pragmatic and scientific considerations can yield the best working basis for assignment of responsibility. 1 - 2:15 p.m. 1-001 Natural Resources Engineering Facility, Markin/CNRL

Graduate Scholarships Information Session The Alberta Ingenuity Fund (AIF) invites 4th year undergraduate students, 1st year MSc and PhD graduate students and professors recruiting graduate students to attend this session to learn more about graduate scholarships available from AIF. 1:30 - 4 p.m. DP 2-104 Dentistry/Pharmacy <http://www.albertaingenuity.ca>

1st Annual Peter Lougheed Cdn Studies/ Political Science Lecture Miriam Smith (York University) Thinking about 'National' Human Rights: Queer Movements in Canada and the U.S. Co-Sponsored with the Canadian Studies Institute, Campus Saint-Jean, 2 - 3:30 p.m. 10-4 Tory Building Henry Marshall

A talk by Dr. Niko Troje, Queens U. A fascinating talk entitled "All creatures great and small: Visual detection of animate motion" that brings together Psychology, Biology and Computer Science. Anyone interested in information processing involved in the recognition of biological motion, motion capture, human gait, or social cognition is encouraged to attend. 3 - 4 p.m. BSM 145 (Bio Sci, Main Wing) Biological Sciences <http://www.psych.ualberta.ca/~psychoqu/>

Interdisciplinary Political Theory Group - Speakers Series "Belonging to Oneself." Trauma and Testimony: Jean Amery and Paul Celan Featuring: Magdalena Zolkos Killam Postdoctoral Fellow Dept. of Political Science 3 - 4:30 p.m. 10-4 Tory Building, Henry Marshall

The Control of Cell Growth in Drosophila Savraj Grewal, Southern Alberta Cancer Research Institute, Department of Biochemistry and Molecular Biology, University of Calgary 3:30 p.m. M-149 Biological Sciences <http://www.biology.ualberta.ca/courses/genet605/?Page=399>

Pandas Volleyball Pandas vs. Saskatchewan 6:30 p.m. Main Gym

Bears Hockey Bears vs. UBC 7:30 p.m. Clare

Drake Arena www.cubclub.ualberta.ca

Bears Volleyball Bears vs. Saskatchewan 8 p.m. Main Gym www.cubclub.ualberta.ca

Music at Convocation Hall II Jasmine Lin, violin Marina Hoover, cello Patricia Tao, piano Brahms Night: Sonata in A Major for Violin and Piano, Op 100; Sonata in F Major for Cello and Piano, Op. 99; Trio in B Major, Op. 8 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

NOV 24 - 25, 2007

Everyone’s Downstream: Tar Sands Realities and Resistance Everyone’s Downstream will be a conference designed to explore the links between oppression and self-determination on many levels: indigenous land rights, gender, ecological rights, workers democracy, anti-racism and anti-border perspectives as they relate directly to the tar sands of Northern Alberta. Speakers from a multitude of indigenous nations, social justice groups, and environmental organizations will discuss the social impacts of the tar sands on workers, women, indigenous nations, ecology, migrant populations, homelessness, and the anti-war movement. November 24th will be a series of panel discussion led by our guests. November 25th will be a chance for the multitude of groups and individuals attending to sit down and discuss a collective way forward. Suggested donation \$10, No one turned away for lack of funds. Check oilsandstruth.org regularly for details and new confirmations. Nov 24th- ETLC E1 001 Aberhart Centre <http://oilsandstruth.org>

NOV 24 - 25, 2007

Crafters Christmas Sale

Christmas is a special time of year and the Crafter’s Natural Creations Workshop and Gallery will have a large selection of one-of-a-kind wreaths, arrangements and table centerpieces, as well as a host of other ideas for Christmas giving. Doors prizes will be awarded. Admission free however, donations are appreciated. Call 987-3054 for further information. 10 a.m. - 4 p.m. Crafters Natural Creations Workshop & Gallery Aberhart Centre <http://www.devonian.ualberta.ca>

Bears Football Vanier Cup 1 p.m. www.cubclub.ualberta.ca

Bears Volleyball Bears vs. Saskatchewan 6:30 p.m. Main Gym www.cubclub.ualberta.ca

Bears Hockey Bears vs. UBC 7:30 p.m. Clare Drake Arena www.cubclub.ualberta.ca

Pandas Volleyball Pandas vs. Saskatchewan 8 p.m. Main Gym www.cubclub.ualberta.ca

World Music Sampler Presented by the Canadian Centre for Ethnomusicology 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

NOV 25, 2007

Music at Convocation Hall I Music at Convocation Hall I Steven Bryant, violin Dianne New, violin Sue Jane Bryant, viola Tanya Prochazka, cello Janet Scott Hoyt, piano Beethoven String Quartets and Brahms Piano Quintet in F Minor 3 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

NOV 26, 2007

GFC General Faculties Council Meeting (Council Chamber) 2 - 4 p.m. 2-1 University Hall

NOV 26, 2007

University Teaching Services Teaching Dossier Preparation (S) What is a teaching dossier and what kind of supportive documentation should it contain? Why are some University of Alberta departments placing greater importance on teaching dossiers? The goal of this workshop is to answer these questions and to provide an opportunity for participants to start creating their own personalized dossier. Presenter: Margaret Wilson, University Teaching Services 3 - 4:30 p.m. CAB 265 Central Academic Building <http://www.ualberta.ca/uts>

Festival of Lessons and Carols An enchanting, edifying night of Christmas readings and music presented by the University of Alberta Christian Chaplains Association, U of A Mixed Chorus, and Department of Music. Proceeds will go to the U of A Food Bank. Tickets available at the Winspear Centre box office. 7:30 p.m.

NOV 27, 2007

University Teaching Services Integrating Teaching and Research (I) How can you help students learn to think like Psychologists? or Anthropologists? or Chemists? WHY should we help undergraduate students develop tools of a discipline? This session discusses the benefits of integrating teaching, and research, and considers ways in which these important functions of the university can be co-ordinated to improve student learning. Presenter: Connie Varnhagen, Psychology 3:30 p.m. - 5 p.m. CAB 243 Central Academic Building <http://www.ualberta.ca/uts>

www.ualberta.ca/uts

TALeS of Neural Patterning: Transcriptional Regulation of Retinoic Acid Signaling Speaker: Andrew Waskiewicz, Department of Biological Sciences, 4 p.m.

Inside/OUT 2007/2008 Speakers’ Series - Queer Teen Pregnancy Inside/OUT 2007/2008 Speakers’ Series Profiling Queer Research & Work at the University of Alberta Queer Teen Pregnancy?! A Paradox from Population-Based Research Dr. Elizabeth Saewyc, RN, School of Nursing and Division of Adolescent Medicine, University of British Columbia; Research Director, McCreary Centre Society; Senior Scientist, Centre for Community Child Health Research, Child Family Research Institute. While lesbian, gay, and bisexual couples embarking on parenthood in Canada and the U.S. have become increasingly visible as a social phenomenon, the notion of gay, lesbian and bisexual teens involved in pregnancy, or becoming teen parents, still often elicits a cognitive double-take. 5 - 6 p.m. 7-152 Education North Education Centre <http://www.ualberta.ca/~inout/>

NOV 28, 2007

Insulin Signaling in beta-cells James D. Johnson, Department of Cellular and Physiological Sciences, Department of Surgery, University of British Columbia is presenting a seminar on "Insulin Signaling in beta-cells". 12 noon BSB-121 Biological Sciences <http://www.biology.ualberta.ca/courses/biol642/?Page=5835>

Medical Genetics Seminar Series - Visiting Speaker Dr. Barb McGillivray, Medical Genetics, University of British Columbia will present her talk, titled: “Genetic Research and Aboriginal Communities - What are the Issues?” 12 noon - 1 p.m. 2-07 HMRC Heritage Medical Research Centre <http://www.medicalgenetics.med.ualberta.ca>

Lunch & Learn: Budgeting? Winning the Cash Flow Game Have you ever wondered how you are going to make it to the month’s end? With so much to buy and so many ways to justify purchases, it can seem like there just isn’t enough money. Join us as we learn some sound advice on budgeting. We will discuss creation of your expense/salary cap, true wealth, creating financial goals, principles of financial success, and, of course the dreaded budget. These sessions are free for all UoFA staff. Register online at www.learningshop.ualberta.ca 12:05 - 12:55 p.m. 206 Education Centre <http://www.learningshop.ualberta.ca>

University Teaching Services Giving and Receiving Feedback (E) “As long as a person doesn’t know what he doesn’t know, he doesn’t grow” (J.C. Maxwell). How then does a teacher help a student “to know” so that he/she can grow? This workshop will define feedback, distinguish between feedback and evaluation, address principles of giving effective feedback, and outline tools for providing feedback in the classroom setting. Presenter: Candide Sloboda, Nursing 3 - 5 p.m. CAB 265 Central Academic Building <http://www.ualberta.ca/uts>

Chamber Music: from Conflict to Communion Rena Sharon, Professor of Collaborative Piano Studies at the University of British Columbia School of Music, will be exploring Classical Chamber Music as a metaphoric model of intricate interpersonal, intercultural, cross-paradigmatic creative collaboration. Live music and refreshments will be included! 4:15 - 5:45 p.m.

NOV 29 - DEC 1, 2007

Merging Boundaries - Aboriginal Professionals Gathering Announcing the First Interdisciplinary Aboriginal Professionals Gathering to be held at the University of Alberta. Lister Centre www.acadre.ualberta.ca

NOV 29 - 30, 2007

Cameron Library Craft Sale Annual Cameron Library Craft Sale. Free Admission and Door Prizes. 9:30 a.m. - 3 p.m.

NOV 29, 2007

Guest Speaker: Professor Ravi Malhotra Interpreting Legal Narratives of Workers with Disabilities in Canada: The Role of Disability Identity in the Articulation of Human Rights in a Global World. Malhotra is a disability rights activist and has published widely including in the Journal of Law and Equality and has a piece forthcoming on disability rights and Law and Economics in 2008 in the Alberta Law Review. 12 noon LFC 237 Law Centre

University Teaching Services Browsing the Web for Research: Helping students develop information literacy skills (I) Information literacy is becoming increasingly essential as students turn to the Web for their research, which ranges from valid, peer-reviewed reports on cutting edge research, personal opinions, to unconscionable misrepresentations. We will discuss different ways to help students learn Web searching and appraisal skills, including Web search assignments, on-line tutorials, library tutorials, and stand-alone courses. We will also discuss issues surrounding information retrieval

and appraisal, such as using Wikipedia as a valid information source, plagiarism, and integrating skills development across the curriculum. Presenters: Jan Colter, Libraries and Connie Varnhagen, Psychology 3:30 - 5 p.m. CAB 243 Central Academic Building <http://www.ualberta.ca/uts>

John Fraser, Visiting Speaker - Art & Design John Fraser is a Chicago-based visual artist working in a variety of media, including drawing, collage, and sculpture. Since graduating with an MFA in 1989, he has exhibited extensively in the United States and Europe. His studio practice has focused on concerns related to the tradition of minimalism, and his work reflects an ongoing interest in exploring a visual language that is extremely refined and understated. 5:10 p.m. 2-20 FAB Fine Arts Centre

NOV 29 - DEC 8, 2007

Sophocles’ Antigone Studio Theatre presents Sophocles’ Antigone in a captivating new adaptation by Department of Drama Professor Kathleen Weiss - a visually stunning mix of contemporary and classical imagery. Two brothers have fallen. King Creon allows only one to be buried, forbidding funeral rites to the other, but Antigone resolves to give her brother proper burial, no matter the consequences. 7:30 p.m. Timms Centre for the Arts <http://www.uofaweb.ualberta.ca/drama/studio0607season.cfm>

NOV 30, 2007

4th Annual Engineering Head Shave This event has raised over \$70,000 for the Alberta Cancer Foundation, and this year, we aspire to hit the \$100,000 mark. We are actively looking for volunteers to help promote the event, collect pledges and/or shave their heads. Please contact us for any further information! 12 noon - 4 p.m. Solarium Engineering Teaching and Learning Complex (ETLC) <http://www.ess.ualberta.ca/headshave/>

Integrated elasticity in variable environments Carol Horvitz, Department of Biology, University of Miami is presenting a seminar on "Integrated elasticity in variable environments." 12 noon M-145 Biological Sciences <http://www.biology.ualberta.ca/courses/biol6131/?Page=326>

Computing Science Distinguished lecture Madhu Sudan, Fujitsu Professor of Electrical Engineering and Computer Science and Associate Director - CSAIL, at MIT, will present a Distinguished Lecture entitled "List-Decoding: A Survey". Please join us for coffee and cookies at 3p.m. followed by the lecture. 3:30 p.m. CSC B-10 Computing Science Centre <http://www.cs.ualberta.ca/events/details>.

<http://www.ualberta.ca/uts> php?id=843

Match, Break, and Lock: Coordination of Meiotic Prophase Events by the HIM-3 Family Monique Zetka, Department of Biology, McGill University is presenting. 3:30 p.m. M-149 Biological Sciences <http://www.biology.ualberta.ca/courses/genet605/?Page=399>

Bears Volleyball Bears vs. Manitoba 7 p.m. Main Gym www.cubclub.ualberta.ca

Canada’s Most Notorious Queer Performers LIVE @ U of A Inside/OUT & Exposure Present: Canada’s Most Notorious Queer Performers. Together on a single bill, three of Canada’s most notorious queer performers: Ivan Coyote, Shawna Dempsey and Lori Millan. For more information about Exposure: Edmonton’s Queer Arts & Culture Festival, please visit: www.exposurefestival.ca. For more information about Inside/OUT, please visit: www.ualberta.ca/~inout 7 p.m. - 8:30 p.m. 2-115 Education North Education Centre

Bears Hockey Bears vs. Calgary 7:30 p.m. Clare Drake Arena www.cubclub.ualberta.ca

University of Alberta Concert Choir Evelyn Pfeifer, Conductor. The program will feature Britten’s Ceremony of Carols, Brahms’s Weltliche Gesänge, Op 42, and music by Hindemith, Willan, Sirett and Daley 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

DEC 1 - 22, 2007

Undergraduate Forest Society Annual Christmas Tree Sale. White Pine, Scots Pine, Balsa.m. Fir and Douglas Fir. 10% of the proceeds go to the United Way. Corbett Fields

DEC 1, 2007

Bears Volleyball Bears vs. Manitoba 7 p.m. Main Gym www.cubclub.ualberta.ca

DEC 2, 2007

University of Alberta Concert Band Wendy Grasdahl, Conductor. 3 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Happnin’ University of Alberta Jazz Choir John McMillan, Conductor. Program will include music by the New York Voices, Gavin DeGraw, Beady Belle, and Paul Simon Advance tickets are available at TIX on the Square, 420-1757, and tickets are available at the door. 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

25TH ANNIVERSARY OF THE CANADIAN CONSTITUTION: Perspectives from the West

Organized by:



November 22–24, 2007
Campus Saint-Jean
8406 - 91 Street, Edmonton, Alberta



Guest Speakers

Thursday, November 22, 2007 at 7:30 p.m.
Mr. André Pratte, Chief Editorial Writer, La Presse

Friday, November 22, 2007 at 2:00 p.m.
Dr. Miriam Smith, President, Canadian Political Science Association

Friday, November 23, 2007 at 7:30 p.m.
The Honourable Hugh Segal, Senator

Friday, November 23
9:00 a.m. – 5:30 p.m.
Session 1: Canada Since 1982
Session 2: Rights and Institutions
Session 3: Democracy and Public Policy

Saturday, November 24
9:00 a.m. – 6:00 p.m.
Session 4: Clash of Traditions: Europe, First Nations, Metis
Session 5: Political Sovereignty, Perspective from Abroad, and the Future
Session 6: Francophonies (Legal Aspect and Community Aspect)

Sponsored by:



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For more information and to register, please contact Marie-Claude Levert at 780-485-8635 or levert@ualberta.ca or visit our Web site: <http://fec-csi.csj.ualberta.ca>

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NEW UPSCALE 2 BEDROOM ADULT CONDO - Quiet cul-de-sac at 86 Avenue and 108 Street. In-suite laundry gas fireplace, 2 undgrd parking stalls. Natural gas incld in rent \$1850/mth (780) 436-3609.

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EXECUTIVE CONDO - 9 minute walk to University of Alberta Hospital, Brand new, 2 bdrms, 1118 sq.ft., hardwood floors, granite kitchen counters, fireplace, 6 new appliances, 9 foot ceilings, Secured building with 2 elevators, 2 heated secured parking stalls, video surveillance, 2 enclosed storage units, wired for internet, top floor with south and west view from balcony. Beautiful Elm trees on quiet cul-de-sac street. Professional Preferred. No Smoking. No Pets. 1 year lease required. \$2,300/month. Damage Deposit one month's rent. Call (780) 496-9801 or (780) 907-9981.

EXECUTIVE HOME - three bedrooms plus one large bonus room, 1908 sq., ft., hardwood floors, five new appliances, gas fireplace, fully landscaped yard, with large cedar deck, available for immediate occupancy. Ideal for University students or staff, professionals. Partially finished basement. Located in Rutherford Heights, at 1104 - 117 St, S.W., Edmonton, Alberta T6W 1W8, this property is close to shopping routes, all professional services, as well as Anthony Henday Drive, University of Alberta, Edmonton South Common and Edmonton International Airport. Rent: \$2,300 per month, plus utilities; one-year lease and 1 month damage deposit required. No pets, no smoking. Call: (780) 907-9981; or: (780) 496-9801 for viewing.

FULLY FURNISHED IMMACULATE HOLYROOD HOUSE - minutes to UofA available immediately. Just bring a suitcase. Completely renovated; new

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TWO BEDROOM, TWO BATH CONDO - brand new 1155 square foot condo, close to UofA Hospital, quiet Parkallen neighborhood. Concrete building with secure underground parking, 9 foot ceilings, stainless steel appliances, in-suite laundry, granite counters, fireplace. No smoking, no pets, 18+ building. Rent \$1700/month. Available immediately. Email: parkallencondo@yahoo.ca, call (780) 438-6237.

ELEGANT OLD STRATHCONA FURNISHED 3 STOREY, 4 BEDROOM - house with 2 car parking pad. Close to university, Farmer's market, River valley park and trails. Quiet, friendly neighborhood. Dec 1 2007-May 31st 2008, \$2250/mth. Rental period negotiable. Mike (780) 433-9029. bydesignedm@shaw.ca

WESTWIND ESTATES, PRIME LOCATION - 2 bedroom, 2 bthrm, for RENT OR SALE. Awesome view, woodburning fireplace, walking distance to downtown, UofA, legislature, across from LRT. Ph (780) 482-6597.

ACCOMMODATIONS FOR SALE

CONDO FOR SALE IN THE POPULAR ROSEDALE HIGH-RISE. Close to U of A, steps away from Grandin LRT Station. 1BR/1BTH; furnished, in-suite laundry. Immediate possession. Asking price: \$269,900. For viewing or for more information call: (780) 952-1260.

CONDO FOR SALE BY OWNER \$788,000 - Unique Galleria penthouse (2340 sq., ft., to be verified by buyer): spacious entry, 3 bedrooms, 2 1/2 bathrooms, great room, marble wood-burning

fireplace, 2 private decks, 2 underground parking stalls and lots of storage space. On site resident manager. Steps from the river valley parks. A quiet neighbourhood in central Edmonton near: coffee shops, restaurants, elementary (French immersion, Spanish bilingual) school, golf courses, government centre, buses and LRT. Viewing only by appointment: (780) 482-4128; rbradley@telus.net

CLASSY RIVERBEND ADULT DUPLEX BUNGALOW - spacious, loads of quality upgrades. Double garage. Quiet setting. \$635,000. Details from Denise Rout (780) 498-6222, RE/MAX.

GARNEAU! WALK TO UofA - Built in 2000, 3 bedroom, 2 storey, double attached garage, hardwood, maple kitchen, all appliances, finished basement. 11008 80 Ave. \$725,000, low maintenance! Suzanne Piquette RE/MAX (780) 441-1799.

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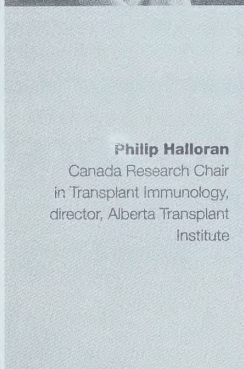
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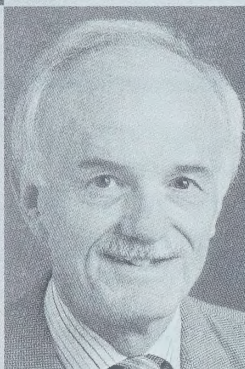
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Chair in history and
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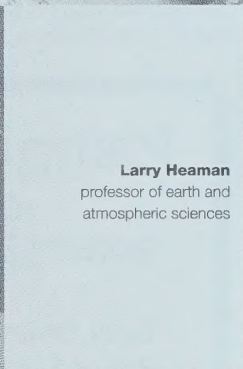
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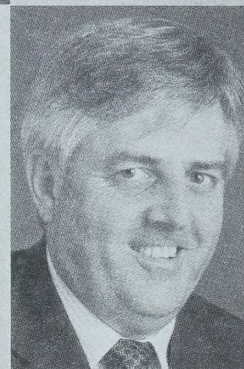
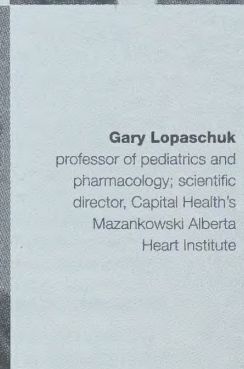
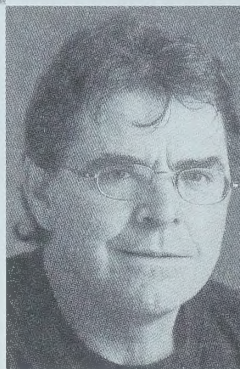
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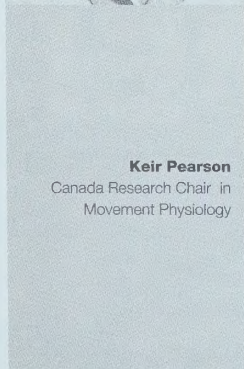
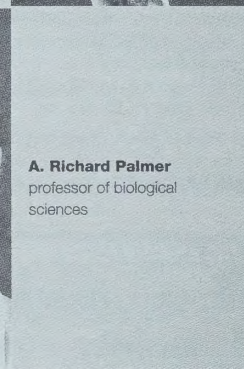
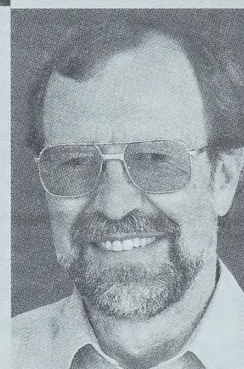
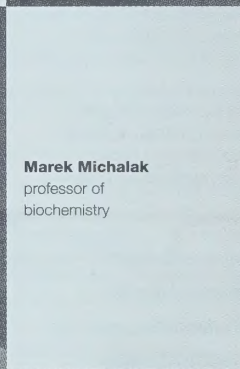
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director, Capital Health's
Mazankowski Alberta
Heart Institute



Ronald McElhane
professor of
biochemistry



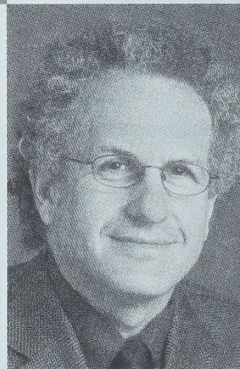
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**12 University of Alberta scholars have been elected this year as fellows to
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Election to RSC is the highest academic honour
for scholars, artists and scientists in Canada.**

*For the first time in its 125-year history, RSC will hold its prestigious Annual General Meeting
in Western Canada this November in Edmonton at the University of Alberta.*



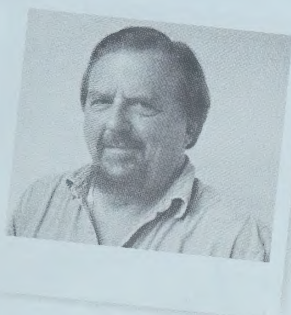
www.ualberta.ca

CLIMATE WARS

A free lecture by Gwynne Dyer

Wednesday, November 21, 7:30 PM

Myer Horowitz Theatre, SUB



Join Gwynne Dyer as he reflects on the eventual price civilization will pay for progress. Learn about the intergenerational nature of the climate change crisis and the dramatic implications of a world five degrees warmer.

For more information, visit www.international.ualberta.ca/global_events.php.



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Faculty of Extension

Information Sessions | Winter/Spring 07/08

Tuesday, November 20, 2007

6:30-7:30 pm

Business Programs

Room 2-926

Construction Administration

Room 2-957

Fine Arts

Room 2-922

Occupational Health and Safety

Room 2-958

MA Communications & Technology (MACT)

Room 2-941

Spanish Language

Room 2-955

8:00-9:00 pm

Adult & Continuing Education (CACE)

Room 2-926

Business Analysis Professional Citation

Room 2-958

Environmental Resource Management

Room 2-957

Residential Interiors

Room 2-922

Master of Science in Internetworking (MINT)

Room 2-941

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SUMMER STUDENTSHIP

INFORMATION SESSION

AHFMR Summer Studentships assist undergraduate students who:

- >>> Are curious about health research as an educational or career pathway
- >>> Have exceptional academic records
- >>> Want mentorship by top scientists
- >>> Want to participate in laboratory research
- >>> Are motivated to excel
- >>> Are looking for information on how to apply

The Alberta Heritage Foundation for Medical Research is hosting an information session for students wishing to apply for a 2008 Summer Studentship.

WHEN:

Monday,
December 3, 2007
11:45 AM - 1:00 PM

WHERE:

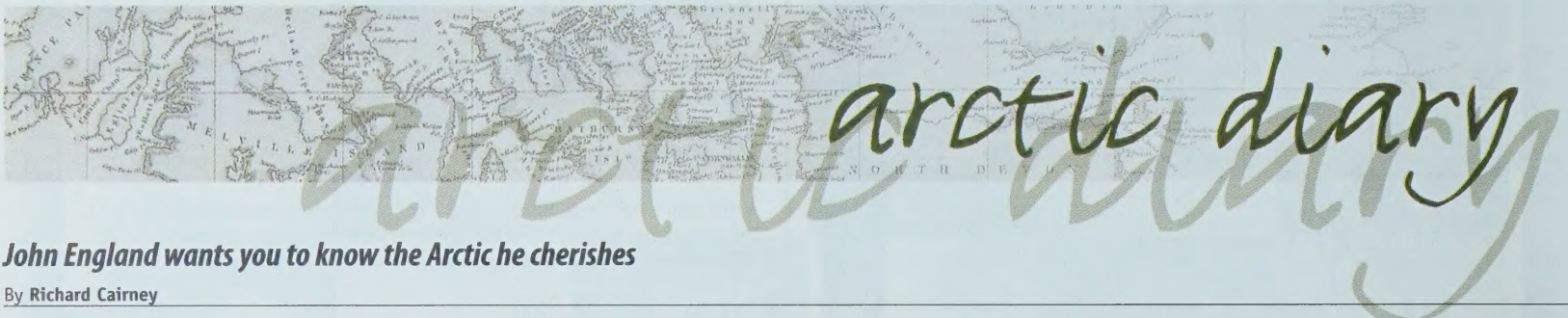
Room 2-07
Heritage Medical Research Centre

WHO:

All undergraduate students, medical students and grade 12 students who have HYRS or other research experience.



View from Mt. Nares to Lady Franklin Bay, Ellesmere Island, July 1971.



arctic diary

John England wants you to know the Arctic he cherishes

By Richard Cairney

To say John England has a passion for the North would seriously understate the case.

The U of A professor has undertaken more than 30 field seasons in the Arctic, the first when he was just 18. He has followed the footsteps of great explorers, finding notes and artifacts, including a message dating from the first International Polar Year left by Lockwood and Greely when they established Fort Conger, on Ellesmere Island in 1882.

As a tribute to such early exploration, England once poured scotch on the grave of explorer Francis Hall, who died in 1871 at Thank God Harbour, Greenland.

Every summer, England leads undergraduate and graduate students in a number of Arctic research projects, looking at indicators of the Arctic's climate and environmental history. They investigate glacial landforms and sediments, as well as raised marine shorelines containing whalebone and driftwood that collectively record the nature of past glaciation, crustal adjustments to transient ice sheets, and related events such as changing sea ice and ocean currents.

Since 1965, England has also recorded a way of life through breathtaking photos of a people and landscape that are quint-

essentially Canadian, yet so often removed from public attention.

Many of those photos are now on display at the Sugar Bowl, a popular restaurant in Garneau, just off campus, to celebrate the U of A's long-established research presence in the North and the current International Polar Year.

"Photography and writing are definitely an inseparable interest of mine vis a vis the overwhelming beauty and spiritual significance of the Arctic, and as a way to express a part of our Canadian heritage that has been left sadly on the perimeter of our collective experience and identity as a northern nation," said England. "For at least 20 of my field seasons, I have kept a diary to record the stories and reflections from an isolated tent camp that serve to capture both the immediate experiences as well as the evolution of a way of life if not gradually disappearing, certainly in transformation. These stories need to be told to a public that rarely hears them."

Through his photos, England hopes to convey more than visual information about the Arctic.

"People need to know that the Arctic is also a place whose silence invites us to experience personal renewal and a realization of what truly matters in life,

commonly drowned in the south by the endless distractions and rush of daily duties. In this way, the Arctic is like a gigantic outdoor monastery . . . a place where encumbering non-essential 'cares' are radically discarded for a much deeper freedom," he said.

"The Arctic is an enormously sacred space still preserving remnants of what I call 'the original Earth.' This resource is far more important to our future than our current colonial obsessions with economic wealth and growth. Like vast parts of the Earth, including endangered cultures and species, we are close to losing this for the shallowest of reasons." ■



Johnny goes vegetarian, Inugsuin Fiord, August 1965.



Historic site of Fort Conger, Ellesmere Island, the American station, first International Polar Year, July 1981.



A more recent photo of John England, with students in the North.

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